```
cggaaaactg cctgacaaca aagtcattgc tagtgaacta ggcagtatgc cagaactgaa      900
gaaatacatg aagaaagtca tgccatttgt tgccatgatt aaggaaaatc tggagaagat      960
ggggcctcgt attctggatt tgcaattaga atttgatgaa aaggctgtgc ttatggagaa     1020
tatagtctat ctgactaatt cgcttgagct agaacacata gaagtcaagt ttgcctccga     1080
agcagaagat aaaatcaggg aagactgctg tcctgggaaa ccacttaatg tttttagaat     1140
agaacctggt gtgtccgttt ctctggtgaa tccccagcca tccaatggcc acttctcaac     1200
caaaattgaa atcaagcaag gagataactg tgattccata atcaggcgtt taatgaaaat     1260
gaatcgagga attaaagacc tttccaaagt gaaactgatg agatttgatg atccactgtt     1320
ggggcctcga cgagttcctg tcctgggaaa ggagtacacc gagaagaccc ccatttctga     1380
gcatgctgtt ttcaatgtgg acctcatgag caagaaaatt catctgactg agaatgggat     1440
aagggtggat attggcgata caataatcta tctggttcat taaactcatg cacattggag     1500
atttatcctg gtttcttagg aatactacta ctctgattgt gtctactgat tggctatcag     1560
aaccttaggc tggacctaaa tagattgatt tcatttctaa ccatccaatt ctgcatgtat     1620
tcataattct atcaagtcat ctttgattcc tggacctaat aaatttttt tcccttttctt     1680
tgggtgtcca agagaaatgg ttttttgccaa actctttta aaaaacaaat tgttgctatt     1740
tcctagaagt ttctggtttt taagatgaac ataaaagtgt cagtatgctt cttttatgag     1800
gtgtacttta tactttgatg aaggctaagg tgtacctaac agctttttat agtatattca     1860
tttatggagt tagctgtatt tttttaaaa aagaaaagta gtaaattagc agcttttttt     1920
tttaaatgaa gagaacttct tgatgattta aaagaactaa tgagaatatt ttgacttgac     1980
ttcaattact aagtattttg tataaagaac aaataggtcc tgcattttat aagacttttt     2040
aaagctttaa ttattcaact aagaaccaat aatggcttct tcaaggctaa tatcaatagt     2100
ttataagcag tatatttcac ctacactaaa tatgggcatt ttaaaagaag attcccccct     2160
tccccccccag aaatctgcat ttactaaatt tgtcttaagt ccaattgtgt ttaaaggtca     2220
tgctggtcgg gtgtggtggc tcacacctat aatcccagca ctttgggagg ccaaggtggg     2280
cagtcacctg aggtcaggag tttgagacca gcctgaccaa catggtgaaa ccccgtctct     2340
actaaaaata caaaaattag cttggcatgg tggcgggtac ctgtaatccc agctgcttgg     2400
gagtgtgagg caggagaatc gcttgaacct gggagaccga ggttgcagtg agctgaaacc     2460
gtgccattgc actccagctt aggcaacaag agtgaaactc tgtctcaatc aatccatcaa     2520
tcaatcaata aaatagaggt catgctgact attaaaaaaa aaaaaa                    2567
```

<400> 5466

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cgagcaagtg gaatgtgtac aagagggagt taccatggaa acagcatatt ctcctggtaa      60
ccagaatgga gttttggact ttttttttcca gaagccatct ggatttctca ccttattgga     120
tgaagaaagt caaatgattt ggtcagtgga atcaaatttt ccaaaaaaac tacaaagtct     180
cctagaatcc tcaaacacaa atgcggtgta ctcccccatg aaggatggga atgggaatgt     240
tgccctcaaa gaccacggta cagccttcac catcatgcac tacgcaggaa gggtaatgta     300
tgatgttgtt ggggcgattg aaaaaaataa agactccctt tcacagaatc ttctatttgt     360
aatgaaaact agtgaaaatg tcgtgatcaa tcatttgttc cagtcgaaat tgtcacaaac     420
aggatccctc gtatctgcct atccttcctt taaattccga ggacataagt ctgccctgct     480
```

```
cagtaagaaa atgacagctt cttcaattat tggagaaaac aagaattatc tagaacttag    540
taagttatta aaaaagaaag gaacttctac atttcttcaa agattggaac gaggagatcc    600
agtcaccata gcatcacaac tcaggaaatc actaatggat attattggaa aacttcagaa    660
gtgcactcca cacttcattc attgcatcag gcccaataac tcaaagctgc cagatacttt    720
tgataatttt tacgtgtctg ctcagctaca atatattggg gtcctggaga tggtgaagat    780
cttccgatat ggataccctg ttcgcctttc cttctcggat ttcctgtcaa ggtataagcc    840
actggctgat acattcctgc gtgagaagaa ggaacagtca gctgccgagc gatgtcgact    900
tgttctccag cagtgtaaat tacaaggctg gcagatggga gtccgaaaag tgtttctaaa    960
atactggcat gctgaccaac tcaatgattt gtgcctacag ttgcagagaa aaattataac   1020
ctgccaaaaa gttatcagag gatttttagc acgccagcac ctgcttcaga gaataagcat   1080
cagacaacaa gaggtgactt ctatcaatag ctttctgcag aacacagagg acatggggct   1140
gaaaacctac gatgccctgg tcattcagaa tgcttcagac attgcccggg aaaatgaccg   1200
gctccgtagt gaaatgaacg ctccctacca taaagagaag ttagaggtca ggaacatgca   1260
agaggaagga agcaaaagaa ccgatgacaa gagtggaccc aggcatttcc accccagctc   1320
catgtcagtc tgcgcggccg tggatggcct gggccagtgc ctcgttggcc cgtccatctg   1380
gtctccttcg ctgcactcgg tgttcagcat ggatgacagc agcagcctcc cgtctccacg   1440
gaaacagccc ccgcccaagc caaagaggga ccccaacacc cggctgagtg cttcctatga   1500
ggctgtgagc gcctgcctct ccgcggccag ggaagcggcc aacgaagctc tggcccggcc   1560
cagaccgcac agcgacgact acagcaccat gaagaagatt cctcctcgaa agcccaagcg   1620
cagccccaac accaagctca gcggctccta cgaggagata tcggggtccc ggcccggqga   1680
cgcgaggccc gcgggcgccc cgggggcagc agcgcgcgtt ctgacccccg ggactccgca   1740
gtgcgcgctg cccccggcgg cgcctccggg tgacgaggac gacagcgagc ctgtgtacat   1800
cgagatgctg gggcacgcgg ccaggcccga tagcccggac cccgggagt ccgtgtacga    1860
ggagatgaag tgttgcctgc ccgacgacgg cggcccgggc gcgggctcct tcctgctcca   1920
cggcgcatcg ccgcccctgc tccaccgcgc gccggaggac gaggcggcgg ggccccagg    1980
ggacgcgtgc gacatcccgc cgcccttccc caacctgctg ccgcaccggc cgcccctgct   2040
ggtgttcccc ccgacccccg tcacctgctc ccccgcctcc gacgagtcgc ccctgacacc   2100
cctggaggtg aagaagctgc cagtcctgga gaccaacctc aagtaccccg tgcagccgga   2160
ggggtcgagc ccgctgtccc cgcagtactc caagagccag aagggcgacg cgacaggcc    2220
cgcgtccccc ggcctggcgc tgttcaacgg gtccggccga gcctccccgc cgtccacgcc   2280
gccccgccc cgcccccgc ccgggccgcc ccccgcgccc tacaggccct gcgcgcactt   2340
ggccttcccg ccggagcccg ccccggtgaa cgcggggaaa gcggggccga gcgcagaggc   2400
gcccaaggtc cacccaaagc caaactctgc ccccgtggcc gggccctgca gctccttccc   2460
caagatccca tattccccc tgaaggccac cagggcggac gccaggaagg ccggctccag   2520
tgcctcgccc cccgcgccct acagccctcc cagctccagg cctctcagca gcccccctgga   2580
cgagctcgcc agcctcttca actcggggag gagtgtgctt cggaaatccg cggcgggaag   2640
aaaaatcagg gaagccgaag gttttgaaac taacatgaac ataagtagcc gagatgaccc   2700
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gttatctaat tcactatcta gtgctataac tgctgaaaat ggaaattcca tctcaaatgg   2820
tttacctgaa gaagatggat actcacggtt gtctataagt ggcacaggga cttcgacatt   2880
tcaaagacac agggacagtc acaccactca ggtaatccat cagctgaggc tctcagagaa   2940
tgaaagtgtg gccctgcagg aactcttgga ctggaggaga aagctctgtg aggaaggaca   3000
agactggcag cagatcctgc accacgctga gcccagggtg cctccccac caccttgcaa   3060
gaagcccagc cttctgaaga agccggaagg ggcctcctgc aacaggctgc cgtctgagct   3120
ctgggacacc accatttgat gtggcctgaa ctgcagactt acaaaataga actgcctact   3180
gattccgggc tgcaacaaca gaaggctgcc ttctgacatg cgctgggggct ctctccacg   3240
catttagaca aaaaaagcac aggacacaga cactaaatat atgagatccc gtgtgtgtgt   3300
gtgtgtgttt gtgtgtgtgt gtgtgggttc tttcttatcc atctcggggg gatacactct   3360
gattttcaag ctcctcattt acggctctgt gctaccccta ggtagcaaga gagaggctgg   3420
gaaaagtgtg gacgtggcca gagcgagaga gtagcggagg aaaggagcaa tccatgcaca   3480
ctctgtacag ttgttttttct acggttcaac agtctgttta ttgtacttcc aatggtttta   3540
ttataataca gtatacggga catatatttt atttctttgt agctacttgt gttttattgg   3600
tattataaac ctgataatta tttacatgtt tattactgta attttataaa tttatgcaat   3660
tggtggtgct tcctttcttc aaaatacaga ttttaaaaaa tcatttctag attatytctc   3720
ytcctccaca gtcctttttt tttcacctaa cgcacctaaa tcttgaaact acattgttgt   3780
tttagcttcg ccagtgtcac cccttgcaaa actatgaatt gagccccatg ttttaggtgt   3840
tactcatgga tgaggaggct gttctttcct atgccctgta tttctggata agtggattgt   3900
```

4004

```
gcmacccytt agttaaattt cacctcccga cttcmagcat agatcacagg amatcacatg    3960
gcacacggtt aaacacgtat ggcttcaaat ccatagccgg tggtgtaaaa tgatcatatt    4020
cattcaaagg cctacacagt acaaatgagc acgctgccat gtactggttt gagcagtagg    4080
ggctgcatcg cacagcgcct cgtcccccgg gacttacact gcatgattcc ctcgctgtat    4140
atcctcaacc ctcccataat gcaaggcctt gttcattgat gtgctttcgt cggctgtcgg    4200
aaagttctga gcagtggctc cagaccacct tgtcttgcta cttggaactt tttattcata    4260
ccagcctttg aaaagttact gtgccaataa agaggtacaa ctgtg                    4305
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<210> 5467
<211> 2436
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(1228)
<223> similar to gi3808148 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5467
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cgaacctcag tcaaggtgaa gttctcggag ctgtccgagg agctgctctg ggaatacgtc      60
cacagtgtgg agcccatgga caaagctggc ggctacggga tccaggccct gggcggcatg     120
ctggtggagt ccgtacacgg ggactttctg aacgtggtgg gattcccgct gaaccacttc     180
tgcaagcagc tggtgaagct ctactacccg ccccgtccgg aggacctgcg gcggagtgtc     240
aagcacgact ccatcccggc cgcggacacc ttcgaagacc tcagtgacgt ggaggggggt     300
ggctcggagc ccactcagag ggacgcgggc agccgcgatg agaaggccga ggcgggagag     360
gcgggacagg ccacggcaga ggctgagtgt cacaggactc gggagaccct gcctccgttc     420
ccgacacgcc tcctggagct gattgagggc tttatgctat ccaagggcct gctcaccgct     480
tgcaaactga aggtgttcga tttgttaaaa gatgaagcac cccagaaggc tgcggatatt     540
gccagcaaag tggacgcctc tgcgtgtgga atggagaggc ttctggacat ctgtgctgcc     600
atggggctcc tggagaagac agagcaaggt tacagtaaca cagagacagc gaacgtctac     660
ctggcatcgg atggcgaata ctctctgcac ggcttcatca tgcacaataa tgacctcaca     720
tggaacctct ttacatacct ggagtttgcc atccgagagg gaacaaacca gcaccacagg     780
gcgttgggga agaaggcgga agatctgttc caggatgcgt actaccagag cccggagacg     840
cggctgaggt tcatgcgggc catgcacggc atgacgaagc tgactgcgtg ccaggtggcc     900
acggccttca atctgtcccg cttctcctcc gcctgcgacg tgggaggctg caccggtgca     960
ctgcccgag agctggcccg tgagtaccct cgtatgcagg tgactgtgtt tgacctccca    1020
gacattatcg agctggccgc ccacttccaa cccccggac cgcaggcagt gcagatccac    1080
ttcgcagcag gtgactttt cagggaccccc ctccccagcg ctgagctgta cgtcctgtgc    1140
cggatcctgc atgactggcc agacgacaaa gtccacaagt tactcagcag ggtcgccgag    1200
agcgttctga gctcctgttg cctgctgtgt cccctgtgtc ctgctgaagg atccccgcct    1260
ggctggccag gactccagct ctctgctgtc tccctcaggg gccggcctgc tgctggtgga    1320
gacgctcctc ctagcaggca gacggctgct gtgacggtgc cgtctaccag gcagggtctc    1380
agtccttctc cgcactccag cctgcatctt cccatcttct gcacgatttc cagtgtgttt    1440
cctccatggg acgccatcgc tgccgctcac ccctggatgc ccacaggcta tggagtggca    1500
gttctctggg cggcttccat ctctcctgcc ttggtgcaga gactgtcacg agcgggacct    1560
ccccagcccc tgctgcgggg ctgaaatgcg tctgtaaaca cccccaccc cgagcccagg     1620
caggccagac tcacacccac cccgtgaggc cctcctgggc acatgctcac tgcggttgta   1680
gggagctcag cgcatccacg tttcccccgt gctccgctcc cagctgctgt ccccggcctg   1740
tgtcccgacc ctcagacctc agttcaccct ctggtgccca cacagccccc tttcctccct   1800
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<div align="center">

4005

</div>

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ggcccctcca ccagggaatg gctgggccaa cctggggctg ggctggggtg gagcccttta   1860
actcacagcc ttgaccttag gaggcactga ggttcaggag gcatctgcaa agcgagaacc   1920
ggagcaggcc taggtgctgt tttcacggcg cgtgcaccca gcttacctgt tcctgggctg   1980
ggcgtcagtc tcctatattt cagctgtttt ccttttctg agacagactc tggagtttag   2040
ctcttcttac ccagactgga gtacaataat gcaatctcgg ctcactgcaa cctccgcctc   2100
ctgggcagtc tatttcaagg tgcaaactcc gcctcctggg cggcctattt caaggtggaa   2160
gccccacctt ctaggcctat ttcaaggtgc aagccccgcc tcccgggcgg cctattacaa   2220
ggtgcaagct ccgcctccca ggcggcctgt ttcaaggtgc aaccccacct cccgggcggc   2280
ctatttcaag gggcaagccc tgcctcctgg gcggcctata tcaaggtgcg agctctgcct   2340
cccaggcagc ctatttcaag gtgcaacccc gcctcctggg cggcctattt caagggcaa   2400
gccccgcctc ctgggtggcc tatttcaagg ggcaag                            2436
```

<210> 5468
<211> 1129
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1114)...(387)
<223> similar to gi4579696 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5468
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ttttcaagca cgattccttt atttcgagcc agaaagcagc cagtaaacaa gtgctgccac     60
ccacaacacc ctgggctacc tgcggtcccg cgcctggccc tgcagcctcg gaagggagct    120
gtgggggtca cccagggccc acttcgtgcc cccaccctgc ccccaccctg ccctgctcac    180
tcccagccgc tgctcccctt cctaaagagc agtccctgct tgagagctct gaggagcaac    240
ttgtttctaa tccacaggat cctgcactaa gagcccccc cacagctatc gtggggcacc    300
ccaacgtatt ccacccctct gccccaggca cccaaggggc atgggcacgg ccagaaggcc    360
tgtcaggagg gccagcagca cccccgaggc ttgtccccaa ggttgggcgg tttggggctg    420
gcgggcacgt tctccaggac ctcacgcagg gagaatgtac aaaaggaaat ctcatcatag    480
gaggtcctgg ccccgctctc gtacaggcag gcaaaaacca ggcccccctc aggggccggc    540
ccgatggacg ccaggtcgga gtagccgctg gggccctcgt agatcaccca gggctctgtc    600
cagctgcgcg ggtccagcgg ggactggctc aggcggatac ccatgtgtag ccgagccctg    660
cgccccactg ggtgggagta cagcagccac gtggggctct ggggcggggc agcaaagggc    720
atggggagtg ccagggtcca ggaccccaca tccccactga ccccaggcct ggggccaggc    780
tgcctggggc catcccccg aggctgcaga cggctgaagg gcccaccagg cacctggcct    840
ccacgggggt ctacagcagc ctcctctggg ggttcgtgga ctccaggacc gaggagtgga    900
ggctggaggg gactcccggg gcccactgac caactgtcat cccgtggcct gttggggggcg    960
ggggctggga agcccacgat gctgccctgg cagccccagg cagtctcggg cagggaagcc   1020
acgcgctctg cgggcaggaa ggaggtgccc tcgtcagtgc tgagcgcctg cacacggctg   1080
cccagtgggc tccgggcatt gcagtagagg aagcgggaat tgcacctct               1129
```

<210> 5469
<211> 2414
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6)...(1625)
<223> similar to gi5917651 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5469
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agcgtacgcc cacgcgtccg caagggaaca actctgagaa tgatgaggaa ggagtggatg   60
aagatgtgga ggaagatgaa tatttagaag aagatgcaga agaagatgaa gaggtggatg   120
aagatggaga ggaggaggag gaagaggagg aggaggaaga tgaggaggag gatgaggaag   180
aacaagaata tgaacaggat gagagagacc agaaagagga gggaaatgat tatgacactc   240
gaagtgaggc cagtgactct ggttctgaat ctgtttcctt cacagatggg tctgtcagat   300
ctggttcagg cacagatgga tcagatgaga aaaagaagga aggaagagag gctagaggca   360
tatctccaat tgtttttgat agaagtggaa gctctgcatc agagtcatat gcaggttcag   420
aaaagaagca tgagaaatta tcatcttccg ttcgtgctgt ccgaaaagat caaaccagta   480
aactcaaata tgtgcttcaa gatgcaagat ttttcctcat aaagagtaac aaccatgaga   540
atgtgtctct tgccaaagcg aagggtgtat ggtccacgct ccctgtaaat gagaagaaat   600
taaatcttgc atttagatct gcaaggagtg ttatcttaat attttctgtc agagagagtg   660
gaaaatttca agggtttgca agactttctt cagaatcaca tcacggagga tctcctatac   720
actgggtgct tccagcagga atgagtgcta aaatgctggg aggtgtcttt aaaattgact   780
ggatttgcag gcgtgaatta cccttcacta agtcggctca tctcaccaat ccttggaatg   840
aacataaacc agtaaagatc ggacgtgatg gacaggaaat tgaacttgaa tgtggaaccc   900
agctttgtct tctgtttccc cccgatgaaa gtattgactt gtatcaggtc attcataaaa   960
tgcgtcacaa gagaagaatg cattctcagc cccgatcacg aggacgtcca tcccgtcgag   1020
aaccagtccg ggatgtggga aggcgtcgac cagaagatta tgatattcat aacagcagaa   1080
agaaaccaag gattgactat cccctgagt ttcaccagag accagggtat ttaaaggatc   1140
cacgatacca ggaagtggac agacgatttt caggagttcg ccgagatgtg ttttaaatg   1200
ggtcctacaa tgattatgtg agggaattc ataacatggg accaccacca ccttggcaag   1260
gaatgcccc ttacccagga atggaacaac ctccacacca tccttactat cagcaccatg   1320
ctccacctcc tcaagctcat ccccttact caggacatca tccagtacca catgaagcaa   1380
gatacagaga taaacgagta catgattatg atatgagggt ggatgatttc cttcgtcgca   1440
cacaagctgt tgtcagtggc cggagaagta gaccccgtga aagagaccgg gaacgagagc   1500
gagaccgccc tagagataac agacgagaca gagagcgaga tagaggacgt gatagagaaa   1560
gagaaagaga gcgattatgt gatcgagaca gagaccgagg ggagagaggt cgatatagaa   1620
gataatgggc ttttggaagc actgattgtt taaagataca aaaaatcttg tattttttt   1680
ttgggggggt ttacaagtag taaatttatt ttcagctgtc tgcctatgaa gttcattgtg   1740
tagaaggatt tattatgacc cctttgttc caagcatgca gtatcataag aactggaaaa   1800
actcaaatcc gccaaaaatc cacagctgac agttgaattg acacttttat tggggcagaa   1860
tggaacagtc caagaatgta gatactgatt ctttctccat aaatgttctt atagtgtgtt   1920
catcctagag ttatttttt gtttgttttt ttccttttg gatcttgatt gataactgcc   1980
atgatatttt gctttgatgt gtttctacat gtagttgcac acggttcagt aaaaataatg   2040
ctgctatcga gtatgcaaat attgaagtat gatggtttga ctgtatggca gtgttgtagc   2100
agcctcttgt ttttttcccc attgcctctt tttttaaaaa acttataaag tcacttttta   2160
tttttcctca gtcttcaatg acgagagcaa tattaagaag acattgctat ctaattttta   2220
atctttttaa atgaaaaatt cctatgttca gtagcgtggt tgatgctatt gtttagcctt   2280
cccctccaaa ttgtatacat tggcttggaa tgttcacaac ttgcgtgcgt ggcagcggaa   2340
gacgattccc atattctaca ttgctactgt tttgtataaa ataaattggt aaagattgac   2400
ggttaaaaaa aaaa   2414
```

4007

```
<210> 5470
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5)...(303)
<223> similar to gi1109915 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 5470
ggccgatgac tgtacccccc tgaaaaccat caccaaattt tataaccacc ccttgcactt     60
tgttttcaat gacaccaagt tggacgctat gctggaagaa tttaagaaag gtaaatctca    120
cctggctatc gtgcagcggg taaacaatga gggagaaggg gatccatttt atgaagttct    180
gggaatcgtc accttagaag atgtgattga agaaatcatc aaatctgaga ttcttgatga    240
aacagattta tacactgaca acagaacgaa aaagaaagtg gctcaccggg aacgaaagca    300
agatttttct gcctttaagc agacagacag tgagatgaag gttaaaatat caccacagct    360
cctcctgggc catgcaccgt ttcctaggca acagaagtag aagcatttag cccatcccag    420
a                                                                   421




<210> 5471
<211> 1139
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (28)...(912)
<223> similar to gi4240305 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 5471
actcttacgt caagctaagg acgcggcacg cagcgcttta ttgatgatgt cgtttctgct     60
gtcctgttgt ccagctatgg ccagtcagca gcgatgcccg gctttgcagg agccatgtca    120
ctagccgggg cccaaggcag cctgtggtct gtggaaggag gcaataagct ggtttgttcc    180
ggtttgctga agctcaccaa ggccaatgtg atccatgcca cagtgacctc tgtgaccctg    240
cacagcacag aggggaaagc cctgtaccag gtggcgtatg agaatgaggt aggcaacagc    300
tctgacttct atgacatcgt ggtcatcgcc accccctgc acctggacaa cagcagcagc    360
aacttaacct ttgcaggctt ccacccgccc attgatgacg tgcagggctc tttccagccc    420
accgtcgtct ccttggtcca cggctacctc aactcgtcct acttcggttt cccagaccct    480
aagctttcc cctttgccaa catccttacc acagatttcc ccagcttctt ctgcactctg    540
gacaacatct gccctgtcaa catctctgcc agcttccggc gaaagcagcc ccaggaggca    600
gctgtttggc gagtccagtc ccccaagccc ctctttcgga cccagctaaa gaccctgttc    660
cgttcctatt actcagtgca gacagctgag tggcaggccc atcccctcta tggctcccgc    720
```

```
cccacgctcc cgaggtttgc actccatgac cagctcttct acctcaatgc cctggagtgg    780
gcggccagct ccgtggaggt gatggccgtg gctgccaaga atgtggcctt gctggcttac    840
aaccgctggt accaggacct agacaagatt gatcaaaaag atttgatgca caaggtcaag    900
actgaactgt gagggctcta gggagagcct gggaactttc atcccccact gaagatggat    960
catcccacag cagcccagga ctgaataagc catgctcgcc caccaggctt ctttctgacc   1020
cctcatgtat caagcatctc caggtgacct actgtctgcc tatattaagg gtccacacgg   1080
cggctgctgc ttttttttaa gggggaaagt aagaaaagag aaggaaatcc aagccagta    1139
```

```
        <400> 5472
tttttttttt ttgaaaatga acaaaataaa gctttatttg aactccctcc cctacagatc     60
attcagatgc ccgggaccat gtccaggttc ctctcagcaa catggaaagc taagccattt    120
cacaaacgca caactgtagc tacactacag ccccccatgc ccagggcaca gctttgttgc    180
taagcctgta acaaaagacc accactcagt atttgtgtac cctgcagcca acaccacctc    240
ctgggcttca caggttcact cacccaagag gccagcacaa ccacgaccga gtgggtactc    300
agtggcccag acaccccccg aacactggca ctgccacaag gccctgaagg gtagactgtg    360
gggcaaagag gacaaactct ccctcccta agggacccgg ctcactgggc ctccttcccc    420
tgccaaccgc cagcccctgc atgcctagca gggaggtaag cacccactgg cgtcgtgatt    480
tccattatct tgctaatgtt gacagcacct aagtcacatt aaaacaaaga gagactggat    540
ccagacctcc aagtctcatc attggacctc agtggttctc actgccccaa ccacagagtg    600
aaggtcaggc agcgtttgcc aggatttggc tctgaccaag ttagtgctct aacaagtcac    660
ctgagtttct aatagcttcc ctgaagaacc caactatttg gagtatgttg cctctcctat    720
caagaggcat ctggggggcac aaaaatcttt ctggatcaca gcttgaagaa acagaacata    780
actggagtag cttcagaact aaggcggcca cattcacccc accgcttagg agttagctcc    840
attatacaca accaagcaca ggagaaacac tcaccaggaa aagatgccgg aggcttggaa    900
gttctcaagg gaactgttta gacagaggta caaacatctc caattcagac ttccaaatac    960
actaacaata attaaaaatg tggcctctga tcctcatgtt tcctcaccag tagaggcaaa   1020
aaaggagatt ttcataacta catgttaaaa agaacatgtt caagtaaatc cacacactac   1080
atgtgagtgt tgcatgctgt cttccacaa tataaaagta taaaaataag atttctgacc    1140
tttgtatcta gacagatctg gagaaaacac ggttgctact agctaactag ctctgtgtta   1200
tctgagcagg cgcgctatcc cagggcctca ccttcctgtg ctggctcaag agggcagagg   1260
aatggagatg gcaatgcctt ttcattccag gaaaccaaac tcagatggca gaaccagccc   1320
tagccatgtc gcatagcctc tccatgggtg acactcctgg gacctccaat ggatgggaga   1380
aagggctctc agcccagctt cacgtgaggg cggtgtgggt catgtgtggg gtgggggctg   1440
cttctgggac gtaggaagac gccaacctca ggggtacctt ctgggaagga caagccaggg   1500
cttgggtgcc cgcccatccc aagagcccca caaggtgcca gctcacttag cagcagcctg   1560
cttgtccttg cacttctggt agacactcag gatctctgcg atgatgctgg ggtcctccaa   1620
ggtggtagtg tctcccagct cctgggcctc actagtgatg atcttcctca ggagccgccg   1680
catgaccttc ccagacctgg tttttggaag acgtttcacc accaggatct catcaggcac   1740
agcatatttg gcgatcttgg tggccaccat ggacttgagc tgcacc             1786
```

```
<210> 5473
<211> 641
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (643)...(290)
<223> similar to gi3451335 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 5473
attacgccaa gcttggcacg aggctactgc cctcactgga cttggggggt ctggaccttt      60
ggcccctgcc ccctggggga cccagacctc tgggccctca cttctggccc ttacagagat     120
ccaggcatcc aacaccccca tccctgccca agcgtctgag gtgttagtgg tgggggggaga    180
agcccaccat cccagactct ggtaaatgtc tttgctggtt ccttgcagct ggcagtgggg     240
gggacccccag cccaggccca ggcctaggcc tggggtgggg atagggtcag atgaagaatt    300
cctctttcct cttgtgtccg tcgctgccat tgaggaaggc ttctcttgct tctccctgtt     360
catccaagcc actggcttcg tgggtcagat aggaacccct ctgccgtacc gagcaccaga     420
ccatgcccac tagcacacat atgatcagaa acaccagcag cgccaggatg ccgcccacaa     480
tggcataggg aaccgacgtc tgagcctcta ccaccgcacc agggtcgtag accacaagta     540
cgtagagcgc cctcgcatgg ccgtgcttat tggacgcctc gcaagtgtag gtgccgttat     600
ccgcggatac cagacccggg agcgtgagcc gctctcccac g                         641


<210> 5474
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (33)...(212)
<223> similar to gi4469185 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 5474
gaagcatcat cacgccaagc ttggcacgag gcgactgtga gcagagcccc acatcctcgc      60
gcacgtcttc cctgggctct ggcggccccg actgcgccat cacagtcaag agccctggga     120
gggagccggg gcgtgaccac ctcaacgggg tggccatgaa tgtgcgcact gggagcgccc     180
aggccgatgg ctccgactct gagaaaccgt gaggcaagcc cgtcacccca cacaggctgc     240
ggcatcaccc tcagaccttg gagcccaagg ggccactgcc cttgaagtgg agtgggccca     300
gagtgtggcg gtccccatgg tggcagcccc ccgactgatc atccagacac aaaggtcttg     360
```

```
gttctcccag gagctcaggg cctgtcagac ctggtgacaa gtgccaaagg ccacaggcat      420
gagggaggcg tggaccactg ggccagcacc gctgagtcct aagactgcag tcaaagccag      480
aactg                                                                  485
```

<210> 5475
<211> 1281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(482)
<223> similar to gi4589566 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5475
```
tggaaagacc tttagccgtg gttatcatct tattctccat cacagaattc atactggtga       60
aaaaccttac gaatgtaagg aatgctggaa agcctttagt cgctactcac aacttatttc      120
acatcagagt attcatattg gtgttaagcc ctatgactgt aaggaatgcg ggaaggcctt      180
cagactactt tcacaactca cacagcatca gagtattcat attggtgaga aaccttataa      240
atgtaaggaa tgtggcaagg cctttagatt gcgccaaaaa cttactctac atcagagcat      300
tcatactggc gaaaaaccct ttgagtgtaa ggaatgtagg aaggccttta gacttaattc      360
atcccttatt caacatctga gaattcattc tggtgagaaa ccctatgaat gtaaggaatg      420
taagaaggcc tttaggcaac attcacacct tactcatcat ctgaaaattc ataatgtaaa      480
aatctaagaa agtcttttca acttctgtgt tatagaacat tctatgaatg tagtaattaa      540
tctattttgc tccatacatg caactgcgtt ggcattagag gtttttatacc attaaaagag      600
tgtgacaatg tattgtagtc catcatcact caaacctgaa acttcagcat atttgttcta      660
aaaactaatc ctgttataag aatgagaaag acatttaccg tcatccctat cccatcactt      720
tgtgtcatac tggacaagac gcttaactgc tctgtgctat aattttttaa tttatgacat      780
ggtcatataa gagtgcagca gtttgacaca ctttcaatca agaggtggaa ccctacatcc      840
ctctgttgta tacaggaatc tacatccctc tgtgaactct tggccccagt agaatatggt      900
agacgtaact gctgtgctgg tttcttgact cagactttac tggtagggtt acttcacctc      960
atggaaatga cagaactgtc ttggttacaa agtctggcta ctttgctgaa gagaccacat     1020
gaagaggccc tgaaaactac gtagagaggg agaggcacct gctgaaccct gtcttcttga     1080
catccaccaa gataccagac atttgagtga aattttggat ccaccagacc agccaccagc     1140
taaatgccag tgagcgactt ggtaacctga actgatgcca tgtagaatgg aagaattgac     1200
cagctgagcc cctggcccaa atttctgacc cacaaaaaca tgagatataa taaaatggtt     1260
gttgttttaa gccactaaaa a                                               1281
```

<210> 5476
<211> 1638
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 5476

```
cgctgggagg gtacccgctt ctcggaggtg caggccctgc cctcccgggg ctcgctggcc      60
ctgcagccct tccttgtggg tggccgccgc tacctggcac tgggcagtga tttctccttc     120
acccagatct accagtggga tgagggacga cagaagtttg tacggttcca ggagctggct     180
gtgcaggctc ctcgggcctt ctgctacatg cctgctgggg acgcccagct actcctggcc     240
cccagcttca agggacagac gctggtgtat agacacattg tggtggatct cagtgcctag     300
ggggtgccga ggcctctggt ctcctcaggg tggccactgg aggatgggtg ggggcctctg     360
tgagcaccac gtatgcctgt gtgaagacaa gcgaccaacc tgcattcatg cccttgtatc     420
cgcacacgcc cagtgtgtac aggcgcaccc cgtggactgg cccaggagga cgtgcatcat     480
cactgcaatc agcatgaaca ccaggcaccc ctgggacacc taacgcccag ttcccgtgac     540
cccaactgca ggcccccct actctgcagc cttttccatg ctctgccccc tgtctcatgc     600
acgagtggtg cggggtgctg ggagcgaggg gggccgcatc ctcctgtcct tgtgcttctc     660
cttctgcccc tctggtcttt cctgttggtg ctccaggcat tgtttacctg ctcttgctcc     720
ccgctgtagc ccacagccat atctgtcatg cttccccggg gccactcacc cctgccccac     780
cccgtctgca tgctcacatg gacgcggacg gacacactca ttacacactc acacgccccg     840
actgcacccg gtgtccatct ataaacatgt cagggcacgt gtgcatacaa gcagattcag     900
cactgcctac caggctctcc tgttaccttg cctctctgct tggaggggggc cccctctgct     960
cacccccagc gtgcccccccc cggaactgat aaggatgaga atggtggtgc cagcttctga    1020
gggcctgctt ggcctcctgg gggcaaagcc cctctgcccg aagcaataac aacagcagca    1080
gaagcaatcc cggggagctg ccaggggtgt ctgtctctgt tctccttggc gtttccttca    1140
tggccgtgaa tcccagctca cccatggaca gaagacctcc cctcatctga aagcctttct    1200
gccttccttc ctgtagctgt cgctttctca ggcttggact gtcccctggt tcaccctgtc    1260
tttgggatgt ggcccttgag ctgggcgggc tccttgggtg gattagagag ctggccgagc    1320
tgcaagcacc tgagttacct gcgagggtgc ccagagtgga gcttggcctg agggcgtgtt    1380
gcagccctgg ccccaccagt ccacagaggc ccccaggagc actgcctttc agtggaccgg    1440
gtggggggctg gtgggagggg ccccactagc tgagcttctg ctgccctctg ctgtctgctg    1500
agatgccagg ctagtggaga gggcacacca tgtgcccaaa tggtgtgatg ctccttgtag    1560
caggatacca gggtactggg gggcaatgct atgattaact tgcttcaaat aaaaagttcc    1620
cgccccataa aaaaaaaa                                                  1638
```

<210> 5477
<211> 3042
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3043)

<400> 5477

```
catcaaatga attgtcacaa tactcgaata atgcaagaca cagaaaagga tgataacaat      60
```

```
aatgacgaat atgacaatta cgatgaactg gtggccaagt cattgttaaa cctcggcaaa    120
atcgctgagg atgcagccta ccgggccagg actgagtcag aaatgaacag caatacctcc    180
aatagtctgg aagacgatag tgacaaaaac gaaaacctgg gtcggaaaag tgagttgagt    240
ttagacttag acagtgatgt tgttagagaa acagtggact cccttaaact attagcccaa    300
ggacacggtg ttgtgctctc agaaaacatg aatgacagaa attatgcaga cagcatgtcg    360
cagcaagaca gtagaaatat gaattacgtc atgttgggga agcccatgaa caacggactc    420
atggaaaaga tggtggagga gagcgatgag gaggtgtgtc tgagcagtct ggagtgtttg    480
aggaatcagt gcttcgacct ggccaggaag ctcagtgaga ccaacccgca ggagaggaat    540
ccgcagcaga acatgaacat ccgtcagcat gtccggccag aagaggactt cccaggaagg    600
acgccggaca gaaactactc ggacatgctg aacctcatgc ggctggagga gcagttgagc    660
ccccggtcga gagtgtttgc cagctgtgcg aaggaggatg ggtgtcatga gcgggacgac    720
gataccacct ctgtgaactc ggacaggtct gaagaggtgt tcgacatgac caaggggaac    780
ctgaccctgc tggagaaagc catcgctttg gaaacggaaa gagcaaaggc catgagggag    840
aagatggcca tggaagctgg gaggagggac aatatgaggt catatgagga ccagtctccg    900
agacaacttt ccggggagga cagaaagcct aaatccagtg acagccatgt caaaaagcca    960
tactatgatc cctcaagaac agaaaagaaa gagagcaagt gtccaacccc cgggtgtgat   1020
ggaaccggcc acgtaactgg gctgtaccca catcaccgca gcctgtccgg atgcccgcac   1080
aaagataggg tccctccaga aatccttgcc atgcatgaaa gtgtcctcaa gtgccccact   1140
ccgggctgca cggggcgcgg gcatgtcaac agcaacagga actcccaccg aagcctctcc   1200
ggatgcccga tcgctgcagc agagaaactg gccaaggcac aggaaaagca ccagagctgc   1260
gacgtgtcca agtccagcca ggcctcggac cgcgtgctca ggccaatgtg ctttgtgaag   1320
cagctggaga ttcctcagta tggctacaga aacaatgtcc ccacaactac gccgcgttcc   1380
aacctggcca aggagctcga gaaatattcc aagacctcgt ttgaatacaa cagttacgac   1440
aaccatactt atggcaagcg agccatagct cccaaggtgc aaaccaggga tatatccccc   1500
aaaggatatg atgatgcgaa gcggtactgc aaggacccca gccccagcag cagcagcacc   1560
agcagctacg cgcccagcag cagcagcaac ctgagctgcg cgggggcag cagcgccagc   1620
agcacgtgca gcaagagcag cttcgactac acgcacgaca tggaggcggc ccacatggcg   1680
gccaccgcca tcctcaacct gtccacgcgc tgccgcgaga tgccgcagaa cctgagcacc   1740
aagccgcagg acctgtgcgc cacgcggaac cctgacatgg aggtggatga gaacgggacc   1800
ctggacctca gcatgaacaa gcagaggccg cgggacagct gctgccccat cctgaccccт   1860
ctggagccca tgtcccccca gcaacaggca gtgatgaaca accggtgttт ccagctgggc   1920
gagggcgact gctgggactt gcccgtagac tacaccaaaa tgaaaccccg gaggatagac   1980
gaggacgagt ccaaagacat tactccagaa gacttggacc cattccagga ggctctagaa   2040
gaaagacggt atcccgggga ggtgaccatc ccaagtccca aacccaagta ccctcagtgc   2100
aaggagagca aaaaggactt aataactctg tctggctgcc ccctggcgga caaaagcatt   2160
cgaagtatgc tggccaccag ctcccaagaa ctcaagtgcc ccacgcctgg ctgtgatggt   2220
tctggacata tcaccggcaa ttatgcttct catcggagcc tttcaggttg cccaagagca   2280
aagaaaagtg gtatcaggat agcacagagc aaagaagata agaagatca agaacccatc   2340
aggtgtccgg tccccgggtg cgacggccag ggccacatca ctgggaagta cgcgtcccat   2400
cgcagcgcct ccgggtgccc cttggcggcc aagaggcaga agacgggta cctgaatggc   2460
tcccagttct cctggaagtc ggtcaagacg gaaggcatgt cctgccccac gccagggtgc   2520
gacggctcag gccacgtcag cggcagcttc ctcacacacc gcagcttgtc aggatgcccg   2580
agagccacgt cagcgatgaa gaaggcaaag ctttctggag agcagatgct gaccatcaaa   2640
cagcgggcca gcaacggtat agaaaatgat gaagaaatca aacagttaga tgaagaaatc   2700
aaggagctaa atgaatccaa ttcccagatg gaagccgata tgattaaact cagaactcag   2760
attaccacga tggagagcaa cctgaagacc atcgaagagg agaacaaagt gattgagcag   2820
cagaacgagt ctctcctcca cgagctggcg aacctgagcc agtctctgat ccacagcctg   2880
gctaacatcc agctgccgca catggatcca atcaatgaac aaaatttтga tgcttacgtg   2940
actactttga cggaaatgta tacaaatcaa gatcgttatc agagtccaga aaataaagcc   3000
ctactggaaa atataaagca ggctgtgaga ggaattcagg tc                      3042
```

<210> 5478
<211> 2048
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (367)...(807)
<223> similar to gi3417289 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        .

        <400> 5478
ctacgatcat tccgccaagc ttggcacgag gccgtaggcg ctcccgggcg ctggcggcgg   60
cggaggagag ggagcagcgt cacgggcgcc cggcccgtta aaacgctgct ggctggagcc   120
acctccctcc ctgcagcccg caacgggaat ggagtaaagg gagacccgtc gacctggcca   180
cggggatcag cgatggaatt aaagcaatct ttgtccaccc atctggaagc cgagaagcct   240
ctgaggcgct atggggcggt ggaggagacg gcttggaaaa cggagagact ggggagaaat   300
cagctggaca tcatctccat ggcggagaca accatgatgc cagaggagat tgagctggag   360
atggcaaaaa ttcagcgtct ccgggaagtc ttggtccgcc gggagtctga gctcaggttc   420
atgatggatg acatccagct ctgcaaggac atcatggact tgaagcagga gctgcagaac   480
ttggtcgcca tcccagaaaa agaaaaaacc aaactgcaga agcagagaga ggatgagcta   540
atccagaaga tccacaaact ggtgcagaag agagacttcc tggtggacga tgcggaggtc   600
gagcggttaa gggagcaaga agaagacaag gaaatggctg atttcctgag aatcaagtta   660
aaacctctag acaaagtaac caaatctcca gccagctccc gggcagagaa gaaagcagag   720
cccccaccta gcaagcccac ggtggccaag acggggctgg cactgatcaa ggattgttgc   780
ggggccaccc agtgcaacat catgtagccc ccacgtgggg tgccctgggc catggggacc   840
cccccccacc ctcttgtctt tatagccccc atttcaccgg ggcccaagag ctctccaagg   900
cagaaggggt tgaaggcaag cccgtgactg tcaccagagg ccatgggcac ggcaggcggg   960
cctggccacc ctgtacagag tgtagcagta gggagtctct caccgtcgca tggtcctccc   1020
cagagcatgc cgaacccagg agtctgtctc actgtttatc caaacaccag gaaaggtcct   1080
ccctcaaaaa agcatatctc cacttctctc tagctgtatc taacccaccg tgtgaatgaa   1140
ctgggagagg ggcatgctcc ccagctgtgt gtagtcgtga cttctcaaca atctagcacc   1200
atgtcggaca cgttccccat ccaccctcct agctctgctc tcagagctag cacatgggc   1260
acaggtcccc tcccgtctgt cctctcccag caactgtgcc ctggagggct ccacatggcc   1320
cccgtgtctc tcgggcacca cccatatagc agtcccagag ggcccatctg taaagatcga   1380
gcttgtgtgt ggtgtcgtgg tcacatctcc cgcttccccc catcctgtgt ctgggcacag   1440
ttcacatcag gacagcgtcc attgtgctct cagtctgcct caggtgtgtg cctggagggg   1500
gcctggactg gcatggatcc agtgtgcaga agagccagca gggaaccgga agctctgatg   1560
tcaaggccag agcagttgag aatgggaccc agagtagatg ctgacctggg cactccacca   1620
ttccggggcc accacagaga tgccagcagg atgccacttt gccagcccga cacacggacc   1680
tttgtaaaga acagcaacag gcaggagagg cagcgtgtga ccagattgtg tcccgtcatt   1740
gggtggcata tgttaactag ctgccaaaca acttcaaccc gtgtaattca tgtacatttg   1800
caacagccag cccggtacag cctgtgtgac ttctctgtat gtgtgtgtgt gtcgtgacca   1860
gcctaagtag ttagcataac tcaagatgct gatgtgcagt cacccatcag agaaaataaa   1920
aatggaaacc acgttcacag cattttaaaa gtttttactt tttttcttga ttatggaagt   1980
aatccatgta catagtaaat cattttaaaa gtacaaaaag tatgaagaag tttgtcttaa   2040
aaaaaaaa   2048

        <210> 5479
        <211> 1465
        <212> DNA
        <213> Homo sapiens

<220>
<221> misc_feature
<222> (12)...(1402)
<223> similar to gi3510639 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5479
ggatagagcg cattgaagac accagacctg ctggatgtgc agagcagcta gttcacaata   60
acctcccaac caccagtgtc atcatgtgct ttgtggatga agtgtggtcc actctcctga   120
gatctgttca cagtgtcatc aatcgctctc ctccacacct catcaaggag attctgctgg   180
tagatgactt cagcaccaaa gactatctaa aagataattt ggataaatac atgtcccagt   240
ttccaaaagt tcggattctt cgcctcaaag agagacatgg cttaataagg gccaggctgg   300
caggagcaca gaatgcaaca ggtgatgtgt tgacatttt agattctcat gtggaatgta   360
acgttggttg gttggaacct cttctggaaa gagtttattt aagtagaaag aaagtggcct   420
gtccagtaat cgaagtcatc aatgataagg atatgagtta catgacagtg gataactttc   480
aaagaggcat ctttgtgtgg cccatgaact ttggttggag aacaattcct ccagatgtca   540
ttgcaaaaaa cagaattaaa gaaactgata caataaggtg ccctgtcatg gctggtggat   600
tgtttctat tgacaaaagt tacttttttg aacttggaac atacgaccct ggccttgatg   660
tttggggtgg ggaaaatatg gagctctcat tcaaggtgtg gatgtgtggt ggtgaaattg   720
agatcattcc ctgctcccga gtgggccata tattcagaaa tgacaatcca tattccttcc   780
ccaaagaccg gatgaagaca gtggagcgga acttggtgcg ggttgccgag gtctggctgg   840
atgagtataa ggagctgttc tatggccatg gagaccacct catcgaccaa gggctagatg   900
ttggcaacct cacccagcaa agggagctgc gaaagaaact gaagtgcaaa agtttcaaat   960
ggtacttgga gaatgtcttt cctgacttaa gggctcccat tgtgagagct agtggtgtgc   1020
ttattaatgt ggctttgggt aaatgcattt ccattgaaaa cactacagtc attctggaag   1080
actgcgatgg gagcaaagag cttcaacaat ttaattacac ctggttaaga cttattaaat   1140
gtggagaatg gtgtatagcc cccatccctg ataaaggagc cgtaaggctg caccccttgtg   1200
ataacagaaa caaagggcta aaatggctgc ataaatcaac atcagtcttt catccagaac   1260
tggtgaatca cattgttttt gaaaacaatc agcaattatt atgcttggaa ggaaattttt   1320
ctcaaaagat cctgaaagta gctgcctgtg acccagtgaa gccatatcaa aagtggaaat   1380
ttgaaaaata ttatgaagcc tgaagtgtaa ctgatgtttt tatatagtaa acccattaaa   1440
tactgtgaaa ataaccctga aaaaa   1465

<210> 5480
<211> 405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (127)...(214)
<223> similar to gi1172146 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5480
atcatgggtg tttttaaggg gagtcagcaa aaaataaaat aaggggagtt ggtggttgtg   60

4015

```
ggtccacctc ttacccgttg atgtgctctg tgctcacgac acaaagctcc tggctggttc        120
tcttcagaga caggacagga acgagagcca ggctctggtc cggccgtgtg cgagttcttc        180
agcgttgccc tccacatctg gagtaacata ttggtaggtg tgttttgatg aaggaaacat        240
gactccaccc tctcccattg gccttcccag ggaagtagca gaaatctaag aaggtcaggg        300
ggaggagcta acttcagcta gaagtctcat tatcagccag gaggattgat gaccaaatag        360
aaaaaagtaa tttttaaaag gctttatttc cctgcccatc tcttc                        405
```


<210> 5481
<211> 6845
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6595)...(5150)
<223> similar to gi2337952 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5481
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acgaataaag cacacaactt tattcacgaa gttgtgagta tgacagtgat gcagagtata         60
tgacaaagga gtgcagtgag tgctgctggc aacaggagcg gggagcaggt agggatcaca        120
ggcacagcag cgcggagccg gcagggccac ctcctcctct acacacaagc atgtggcact        180
tagcgcgcca acacacacct gctcagtttc acagggaaca cgacacagct tttcaaaagg        240
aattcttcta aacatttgct ttcatatttc caaaagggga gggagggcag gaagaaccac        300
acgccttcca acatttgaaa aaattccata aacccaactt aaaatcaaag aactcagaga        360
gcttcaatgc ggagtcatca gcaactcgca ggaaccacac acatgattgg acaagtctgt        420
acataaaacc ccaaaagaac atcagttttg tggacaatgg tttcctctgc tgtaaagaaa        480
cgtatgcata tatgatcagt aagcagctca catctttctg aatgtcaagg tctacaggat        540
tgtctctgtc cacctttggt caatgggttc aggaagtgac tcatgggaac tgcactctta        600
ggagaaacac ttttgggaat aatttattg aataacaacc accactcaat tacactaagc         660
ttcagaaatt gttggatttg tttaattttg ctgtgtacct atacattgtt tagaaagttt        720
cttttggctt aaactgacca tttcccccct tcttttgag ttttccatga ttaaacttgc         780
ccaaataaaa acataacaat ccatatgcaa agcatatctg ccaccacctc ccactgcttc        840
ctgggccgca aacagaaaaa taaacagtga ttaaaaaaaa tgccaaagtg aaggtttctc        900
tttcttctat cacaacatag ttgggtagtt cccttaaagt acatcattgc tataagttgg        960
tatcactgca aatctcaagt cccaaataat ctcttttttct ggatagaaag ttattcaaaa     1020
gggagcacaa aagagcaagc tttggggcat actgacaaac acttcattgg ttagaagaga      1080
ataattttaa aaatcaaata aaattgaggc tggcatagga agtacagatt aaatacaggt      1140
taaatagcta ccagaaacac agaagaggtg gttaataaaa actgagattg cttcagagga      1200
cacaggaggg ttgatgagac agtctatttt ccttccacca tcttccatga gagtcaggaa      1260
aagggttctg tgagcaccca acctggagcg gtcacctgtc tcttccatac acaggaggat      1320
gctaagaccc agttagcttt aaatggtttt tagaaagact tacctagtca aaagtggtta      1380
atttgaactt ttcaaacttg caaaagcata tacatttgat atcatcatct gagaagcaat      1440
tcttagaaaa aaatgtttgc ttcaatgtct aaagaaatcc agtgaaagtt ttagaaacat      1500
tgccagctag acgtctccga gttagagttg attgatatac tggattggga tggagaggat      1560
gagaactgaa aaagaactgc tccagcctct gcctcagaag aggaaactca gcttggagat      1620
gacagaattg ggtagcggag tagatgctag agcccatgac agatagaaaa ctacccccat      1680
ttaaaaaaaa acaacaactc attaactcta tctctttgag gttttggaga acaggaagtt      1740
tatgtgaagt tattgaacac gtcatattaa gaacatttca taactaaccc caaaccaaaa      1800
tgtagatgca tagctagctg tgcaagtttc ccaatgctct tcctatctcc taataagtca      1860
```
```
                                    4016
```

```
cacagaaaga ctatgtgata gcctggattt tcttgaagaa attttaaaag aactgatttt    1920
cctatcatca ttgaggcccc ttttacttca tgccatcagt atgcacttaa gagtcccaag    1980
gaagtcaaat gttcccaaat gtagcccttt acatcggcac cagggaagcc tgccatatat    2040
acaatcccct tcctagggtg aacaagctcc accagtttga gtgtgttaat aactggaatt    2100
ttcatgtata gtacagggta gggtaaaagc agaccaatag ccatcttgtg tgctgtgacc    2160
aggatggaca ttttgaggac aagcatgctg agcccagttt aactaaatgc gcaggcattc    2220
tagcccacac attcaatctg gcagttagca ggaaccaggt tgccccacaa cccatccctc    2280
cagctggagc cttttgctgg gaaatggagt aggggggccca ctctgcatta tggtttccaa    2340
tgacccctcc ccagagcaga gcactactct gcttgcagat aggaggctac tggtgctttc    2400
tggcaatgca tttctgcaag gtgcagttta aatgaactca tatggtactt gatatggaaa    2460
gaagcttttt ttcttctcaa gttggatgca gaactgagtt taaaagatac aaggaaagca    2520
gggtttcatt agtgggagct gatttagggt tcagttcttt atcactgcaa tcttaggcag    2580
gccccttaac tcctagtctc tataaaataa ggaaggggggt tgtcccagtt ttcagtctaa    2640
tgtccccatt ctatgacaga cccatgtctt ctttatgtag accaaggaag aggaatttta    2700
gcaaaactac ctgattatgc ccatgtttcc caaatacctt gattttttctt atattgacat    2760
ttcatctgca catgtctggg tgataattca ttaatcaatg taaaacgtag ggacccttta    2820
ttagctccat aatgaaaaaa atctctccac cagccaagtg ctgggaccca ggtggccacc    2880
attgttattg acaggtaagg aagcactgga aatgcaccat cctctccatc cccacacttt    2940
ccagagtaaa gcaaggatga ggacacccag gcattgtgcc aaggctgcca ttgcaggagg    3000
gcacagagag aggatgggat agaaaaagca tggaataagc aagaggccac tgagacacca    3060
aaggctaaac tgcaaactgc agtgtggctt ccaaccaagc aagagctggt ctcatctgct    3120
catggccacc ctgtcagagc catttgctaa acatgttagt agatccaaca cacacacaca    3180
cacacacaca cacacacaca cacacacaca cacgagagag tagtcctcat tcagtgcata    3240
gcaatggaag gctaggacaa tttagattcc ttaggtaaga gcacaggagg atgctataga    3300
acagtgactg ttcattccac cccccaaatg acagcagtga gccacgtgtc agaggctgca    3360
acacagactc agaaactatt ctacttgctt ttttaccact ggtgtcagag agacagcttg    3420
taatcctaat atttggtgcc agcaggaaga acttcagagc ttttgttctt agtggcatat    3480
gaaggtaaat tcaaatgttt tcttcttcgg ctttaaaaca gagcttaaat tcttaagcac    3540
agccccaaag catgataata aagtggctta ccctcctggg tgtggagtta cacaaactct    3600
ccctcatcta actcacgtcg ggaatcatga tgtggtttca tatgcacgca cgtgttgggg    3660
aaaccctagg ctcatattcg aatctagtgt tgcagagcct gagggactct cgtgagatgc    3720
tctgacctcc acatcccacc tcatccttcc tctgtggttc ccagtctgat ccttccatga    3780
gctacatcag cgccaacacc tttccatgaa ggaagtgatg ttggggtcgc agtttagcct    3840
cactcttgat ctttgagtca cacacactcg gtgacaatgt ctttagaagc tgcaacacag    3900
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gctgaaaagg ccaaattaaa tacgttcgaa ggagtctact ttggagttgc agagatttaa    4080
aagagaaaaa catgtctttc cttagcctat tattgaaaga aaccttaaaa accaacaaca    4140
gcatgggctt gatctgattc ataggatgcc agagagacag caggataac cgactggaag     4200
aactagagtc agtaggacat gggacttgtt tttgtttttt gctttttggt ttttttggc     4260
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ggcaatttgt gttttttcctt tctttgcaaa ggtggagctc cagacagctc ctgtcctagg    4380
cggggagcag gaaccagacc tgctatggga agcagaaaga gttaagggaa ggtttccttt     4440
cattcctgtt ccttctcttt tgctttttgaa cagtttttaa atatactaat agctaagtca    4500
tttgccagcc aggtcccggt gaacagtaga gaacaaggag cttgctaaga attaattttg    4560
ctgtttttca ccccattcaa acagagctgc cctgttccct gatggagttc cattcctgcc    4620
agggcacggc tgagtaacac gaagccattc aagaaaggcg ggtgtgaaat cactgccacc    4680
ccatggacag accccctcact cttccttctt agccgcagcg ctacataata aatatatta    4740
tactttgaaa ttatgataac cgattttttcc catgcggcat cctaagggca cttgccagct    4800
cttatccgga cagtcagcac tgttgttgga taagagataa aggaaaagaa aaagaagaaa    4860
acaacgcagc tcctgttgta tacataaggt aatgtgaaaa ggtcacatgt ggacactact    4920
ctgtgtttcg gaacatagaa atttctacgc catgcttctt ggcaagtgtt actgttggct    4980
ggcccgacat ttgactcatg gtgtttttaac cagactttct ctttttggtg ttgctgagcg    5040
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cgccactggt cagtcctttc tctaattggc cattcacgag tgggacttag aagagttttg    5160
cttttttctt catgtcgttg cgtctccaaa gaggtaacct gtcaaactcc tgtatggaca    5220
ttccaaagat ttcccgaaac acttcagggg ctaagtggcg ctccagcctg gttctgtcca    5280
```

4017

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cctctctgag gattttgttt cgccctctgt tggtcaccat gagcatttca tatggaaata    5340
tctttggttc caacatgttg ggcatagaca ctcctcggtc cattctcatt gcaggcatgt    5400
ggccatctgg gagtgtctgg taatctcgca ctcccccgct gacatcccca tagctgttat    5460
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atgcagtttt agatgatgga atatgtgaag ctgagttgat gggagaatcg tagcgactgg    5580
ctaacagaga tgacctttcc cggctctctt tctccatctc ttctttcaag atcaactgtc    5640
ccaggcctga gttaagcttc attaattgct cttcttgaag ctgccgacgt ctcagaagtt    5700
cctcatcatc ttcctctctg ccactagatc tgcgtttcat gtcaggtcct acgacagcaa    5760
atgaggggg accaggccag tggtccgtct caatctttgg tgtctcgctg gggtctggtg    5820
cctgggctgc tgggaacttg gaaaacttga tgatatcttc tgaggacttg ctctgggctg    5880
ccaaggcagc atgctgtttg tagatgggtg gctttcggta aatgttgatt ccttgatctg    5940
gaacatggaa atgtttaggg gcctgagcgt aagttggagt tagagggcgg ctgtctggcc    6000
ggtaagggag aggggagttc cggccgctgg acggctcatt gccaggtctg tggaaatgct    6060
ggggagagcg ggacgtggtt ggagtgtagc tgtggcggct gtacacaggg gagttgatgg    6120
agccctggct cgtggaccga tggatcatcc gatcccgaac atcctggtac ccttctgctg    6180
atggagtagg agacaaagtc ctcggagact ctccaaggct ctgtctctcc tgtttgtcat    6240
catagcccga agtgtagaaa ggctcatagg taataagatc tggacgttca atgtcataaa    6300
ttgccttgac cttcggaatg gctgctaaat ccttgtaatc caggatctca ttgtctactt    6360
ttgcatagat agtatgacct ggtgagccag gaatactgga gcctggccta gaataaatac    6420
tttccgagga tgtcctggta ggccgcagct tttcctcggt cttcgtagat tgcttacagt    6480
cgggatgcca aacggtggag ccttgaagat acatttcctc tccttctgtg aacatctggt    6540
tgcatctgct gcatcgtgca cagctggggt ggtaatgttt gtcacctgcc tcaggccagg    6600
gttccttttc ttctaattct gttccttggc tgtgctgagc agagaactcc tccaggcttc    6660
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ctcccacctg cctgggttac atatcaggct tctctccgaa gctcggctaa ggcaacgtgc    6780
atccctctag agacgcactc cggaaaccag ccccgtgtgc ggcgggcagg cacgctcctc    6840
gtgcc                                                                 6845
```

```
<210> 5482
<211> 1477
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1478)...(496)
<223> similar to gi3880930 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 5482
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acatatacct aaaaagtgag ctatcctaca tatgacagac cagaatttac taactccata     120
ggttttctgg atatttcaag cacacattaa aacaattaca gagaggacat acatttatga     180
tttatgcaaa ttaaggcaca tcaattacaa tctatttttt taagttagtc agtttaaaaa     240
tcttcactta caaaaattca aaatatgtcc aagctcaact ttttagtagg aatgttaatt     300
tgtttgggtt ggccattttc ttttttcacc ttaaaggtca aacatgaaac aatgaggaat     360
gtaggtcttt gtaaaacaca taaatacctg tgatgttttg aatcatttgg cccttaaaaa     420
tattgcttaa caagttaaac ccagcttaat tgtaggtaaa tgcaagtata cccaaggctg     480
gactatttta gtctgctttt ggctgcagat tgtacttctg tggctggaaa aaatgttctt     540
caatagcact gaccagttca ttcagttcct tcttcagctg ctcaggatca ctgttcccag     600
```

```
gtggggcaca cagctctgca tagtacttga ttttgggctc tgtcccactg gtgcgcatgg      660
tggccacgcc tccattagca aaggtgaagg tgatcatttg gctgcttta  ctagtgggaa      720
gaacagcttt tttatcaggt tggctatcat catagccagt tgtaaggtcc ctaatggcag      780
aaatttcaaa tttgccacaa gcttttggat aattattttt tccatcgtag tttctgaggt      840
tttcaaataa tttcttaatg gtttcttgat catggcagat aaaataggaa gctttagtaa      900
tatggtagcc atactccaca taaatggcct ttagttgctg agacaaagac aaattcttgg      960
ttgctaggaa gctagccaac tctgcactta tgacagcggc actgactcca tctttgtcca     1020
gaacaaaagg gcagcacatg tatccaatag cttcttcaaa tgcaaataaa acagttttcc     1080
cctggtctat tagctgtttg gctctgtttc ccatccactt aaagccagtt aatgtttcct     1140
caaaatgaaa accttccttt aaggcaatgg cccgcaagat tttggaggag acggtgctgg     1200
acaacatgta cgtgtctttg agagcactgc gatcctggtt cttctctttc caagatgtaa     1260
aaagccacca gcccaggagg gcccccaact cattgcctga aaacaccctc cattcaccac     1320
tgtcttgctt ttctgccaca gcaagtctat cagcatccgg gtcgttagct aaaacaattc     1380
tggccttggt tttgtcagcc aaagcaaaag acaaagtcaa gacacctttc ccctcttcgg     1440
gattcgggta tttcactgtt ggaaactcag gatccgg                              1477
```


<210> 5483
<211> 2150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2028)...(1258)
<223> similar to gi220637 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5483
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tttctggtaa ctcaaaatgt ttacttataa ttgaggttaa tttcttaact ctttatgcaa       60
tataatgtac caaatttaga agccaagtga tttctagtat gcattaagtt tatatctaga      120
aaattctttc tggaattcag tatttatttt aaaaagtgca taacaggagt aagagaggct      180
taccaaaata tttcaaaact caagtacatt ttcctcatct ccaatatttt agaacggaat      240
aaaacataaa ctgaatcaaa ttttgaaact gtctttgaca agataaaaac accaaatatc      300
tacttaaaat tcattttgaa aatacaatct cagataactc aaaccaaaag tgctgaccat      360
tggtttttctc cagaatactc agttctaaat gaacaaaaat ttatatgcac ttttctagat      420
tttgagaaac atttttgttt cattagaaaa gttatttcta acaatatatt aatagagaaa      480
tagcacaatt cttattcagc gcctaaattt ttacgagcga aaatatgaaa ttttattttt      540
atgcatagtt tatgtattga tccatggggc ttacaaatag caacacactc ttgggctgat      600
actatcgtgg attttgctta aattatgagg gcaggaaaat tttaaaatcc cacaggtcac      660
aactgaatca cattaactgg ctgatttagt aaatgaaggg caattctaaa atgcaaaata      720
aaaatggaat taaggcagct ttaaaagaaa ataaaactca tccacccaaa atagtgctac      780
ataattcatt acttaaaaag ctctctgtgg agtatagaca taaagccaaa aataaaaaca      840
aacattgcag ttgtgatgca gcatcaggtg ctttttacttc agtgaatgaa aaataatggt      900
cacaactcaa atgaatggga atttaatatg aatatatgca ccttaccaga gatgtttgct      960
accaatgata tcttagcaat tccatattcc ttacaaagtc agtataattg ttgtaaaaaa     1020
atcaactgtg gttctgaata cccattcaca gttgacctca acaatgtatc tgatgtagga     1080
gactgagtat ccgtgacagg cagaagcatg tgatggtcct cagtcccaag tggaagagct     1140
aatggtaaag tcatatcaga aggcttcaca tccatagttt ctgataaagg acttttttgt     1200
atggaatcct gttcactcaa agtatgatcc tctgcactgg agtctagagt tttatctgca     1260
ccagaatgga ctttttgtttt gtgcttcttt aaatttttaa tatctgtgta agaatttcca     1320
```
```
                                    4019
```

```
cataattcgc agataaatgg tctttctcct gtatgggacc gaaagtgttt gttgagctct   1380
cctgaggaaa taaaactttt cccacaaata ccacatatgt atggttttc  acctgtatgt   1440
tttcgagaat gagtgataag agaactagag acagcaaatg ccttcccaca ggtatcacat   1500
acataaggct tttctccagt atgcctacgg acatgatagg tcagtgtgct ggcttgagca   1560
aatctctgtc cacacctatc acagacatat ggcttctctc cactatgctt ccttgcatga   1620
atcttgagat tgctagaagt tgcaaactgt aagttgcata catcacattt atagggtttt   1680
tcttcaccat gatgcatgcg actatggaag actagctgac atttctgagc aaatccttta   1740
tcacacaatt cacatttgta tggcttctca cctgtatgag ttcttacatg cgttttcagc   1800
tggttacatt gggtaaatgc ctttccacat aagtggcaga cgtaaggttt gactccttta   1860
tgtattctca tgtgccttct caaactgctg gcttctgaaa acactttccc acatgtgtta   1920
cacattggct tggccttgga atacctctga tccagctctt ccccggagtt ctccgcctca   1980
taaggactct tgacgctggc tatattagac atagagtgtt ctttcagagc acagtttggc   2040
tgtgattttc cacgtttccg tttcactgta acagtgtgca caatatcttg tgctggaaaa   2100
gtattttcca caactgatgt caactcgagt tctgaattat catttataag              2150
```

```
        <400> 5484
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gtgatatggt ttggctctgt gtctccaccc aaatatcttg tatctcccat tattccatgt   180
tgtgggaggg gcctggtggg aaataattta atcacggggg caggtctttc ccatgctgtt   240
ctcgtgatag taagcctcat gagatctgat ggtttaaaa  atgggagttt ccctgcacaa   300
gctctctctc cttgtctgct gccatccatg taagatgtga cttgctcctc tttgccttcc   360
accatgattg tgaggcctcc ttagtcatgt ggaactgtaa gtccattaaa cctctttctt   420
ttgtaaattg cccaatctca ggtatgtctt tatcagcagc atgaaaatgg actaatacaa   480
ggtgctagac aaggtgatta aaggctctat aaattctaaa ttgtgcaatt ctaagacatt   540
cttggcattt tacatgtcta gatgactgcc atcttttttt taatatttt  ccctcacatg   600
ttccagtcta ttctcattac agaagaatac gtttaacata cagttacaga aacagaggtt   660
ttaaataaat atttaaaagt aacttcaaaa tatatttgca ctgaaatatg gaggcaaaat   720
tgtttctgag tcaggaaaca tttattcttc cccataaatt taaatggagg tgaaactgtg   780
aatatgaagc aaagaacatt tatctcacaa ggtaactctg aattctttta attctgaaac   840
cagagacatg tacaacactt acagcattca cacaacacta ttttcaaaat aggtttttga   900
cccctaaaaa tgaaaattct tagtgacaag ctttagatat gaaacttagc ccagtgggta   960
ttcactttgt cacaaaaagc aactacagac aaatagtttt tccctctccc cgacacaaaa  1020
actgaaatta cagactttta aagcagaaaa aattttctcc aaaatgcaaa tgattaaggt  1080
ccaaggaaca aatgaacaga agatctcaat tattcaattg agcgagtgat ttagtttgca  1140
tattaactcc ttttcttact acttcctgat atctgattct ggcaatattt atcttgtatc  1200
tactgggcaa gacactggga acacaaagaa attttagaca aggtccagtg gtatgctggt  1260
aaaggtttaa caactagctc ttaagggaaa ggtaggtctt cacttatagc atttctatgg  1320
tgtaaatact ccaattgccg cagatttcaa gctagcaaca atttgacaac tgtctcacaa  1380
```

```
aattcctcaa actaacgatt gtcactcata agacattaca agccagctcc aacacaccac   1440
cgtacagtct ccaccttcaa gtagttcata atctcttcat gggtaccttg tatcagatct   1500
tgggcaactg ccggctgggg tgaccaggga attcttctgg tagcaaaacg tggagtctgc   1560
acgttggaca tgtcccctgt tgcatcaacc atggtctaat gcactgagca tggaatttgt   1620
gagcgcaagg caaaactgaa agattttctg gagacagatt ctcatgacag atcacacaag   1680
gctcttcttc ttcctcttcc tcatctggat tactggctcc ttcccatgtg gcaggaccct   1740
gtgaagtgag tggcctccag                                               1760
```

<210> 5485
<211> 395
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (397)...(71)
<223> similar to gi48676 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 5485
cgcggtatct ccgcagccct gagaagctca tcaagaggat aaaactgcct tagctcgttg    60
agtactttca ctttttcgtg ggatgagcta aggctttcag ctttttttaga tacataagcc   120
gcgtttcaag aaatcgaact tgcctttcaa gatcctcaat gcgtcggtct tttgacagct   180
ccaatgctga tgccgctttt tctggatcaa ctgatattgc aatgtttctt ttggtgccaa   240
tcttgagcgc gcgtaaacca gcttctccgc gctcttcata gaccttcagc cacctggcta   300
cagaaccact accagcaagc ataaagtgag cagcagcctg attaagggac atgtgctgct   360
cgatcacagc tttcacgacc ttaatacgca actct                              395
```

<210> 5486
<211> 540
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)...(150)
<223> similar to gi4062479 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 5486
aaggcgggag tgcggcaatg agcggcgaag cggcgtttta cggcctgcaa ccggtagata    60
gcgatctgca cgcgtttgct gcacatcagt cgttgttgaa ggcctacgaa aagctgcagc   120
gcgccaaagc agcattctgg gcaaaataaa atcaaatagc ctacgcaatg taggcttaat   180
```

```
gattagtctg agttatatta cggggcgttt ttttaatgcc ccgctttaca tatatttgca     240
ttaataaaat aattgtaatt ataaggttaa atatcggtaa tttgtattta ataaatacga     300
tcgatattgt tactttattc gcctgatgct cccttttaat taactgtttt agcggaggat     360
gcggaaaaaa ttcaactcat ttgttaattt ttaaaattta tttttatttg gataatcaaa     420
tatttactcc gtatttgcat aaaaaccatg cgagttacgg gcctataagc caggcgagat     480
atgatctata tcaatttctc atctataatg ctttgttagt atctcgtcgc cgacttaata     540
```

<210> 5487
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(477)
<223> similar to gi1552811 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5487
```
gatggtgaat aaaaacatcg ccgatagctt cctgcccgca ttaagcaaac aaatggcgga      60
aagcggcgtg acattacacg cagatgcagc tgcactggcg cagttgcagg caggccctgc     120
gaaggtggtt gctgttaaag ccgaagagta tgacgatgag tttctgtcat tagatttgaa     180
cgtcaaaatc gtcagcgatc ttgacgatgc catcgcccat attcgtgaac acggcacaca     240
acactccgat gcgatcctga cccgcgatat gcgcaacgcc cagcgttttg ttaacgaagt     300
ggattcgtcc gctgtttacg ttaacgcctc tacgcgtttt accgacggcg gccagtttgg     360
tctgggtgcg gaagtggcgg taagcacaca aaaactccac gcgcgtggcc caatggggct     420
ggaagcactg accacttaca agtggatcgg cattggtgat tacaccattc gtgcgtaaat     480
aaaaccgggt gatgcaaaag tagccatttg attcacaagg ccattgacgc atcgcccggt     540
tagttttaac cttgtccacc gtgattcacg ttcgtgaaca tgtcctttca gggccgatat     600
agctcagttg gtagagcagc gcattcgtaa tgcgaaggtg gtaggttaga ctattatgat     660
gggcaccatc taagatcata tctgttccgt aagatctccg ggtcgcgaca tagaattg      718
```

<210> 5488
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (460)...(359)
<223> similar to gi1651274 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5488

```
ctacgaattc aatgtccgta cccgtacatc gtatagaatg gacttgccct gaccttacct          60
aagttacatt gattgcggct aaatgtaaag atattgctgg tttattgttt gtttttgcga         120
gatgcgccgc accattccga agcaaaattc ttaaaatgca ctcttttagt gctaccgctg         180
gattactgtg gtgcaactag gttgtactga tgctgtttca gggtttgcct tgtataacaa         240
agcaatagat gtgccaaagt tggataggag aatattgtta tccggataat gcactgatgc         300
cgcatccggt gagcgtgccg aaatatggga tgtattccgg cacgataaga agggattatt         360
tacgtcgctg acgcagactc atcaacacag cagcaaaacc aaacaatgcc gtcagcaccc         420
acagcggcca gttgccggta cgtgcgtatg gtgtgatttc g                            461
```

<210> 5489
<211> 429
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (44)...(371)
<223> similar to gi148183 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5489

```
tatgaccacg attacggatt cgatgtccgt acccgtacat cgtcccgact gtaaccaccc          60
tgagattacc ctgctgaaga cgcttctggt caaccagact aatccggtcg atctctcatc         120
gctgcatcag caaaatgccg taccgccgcg cgtcgcaaaa caactctgcc gtttactacg         180
cctggccatc attttttgcca gccgtcgccg tgacgatctc gtgccagaga tgacattaca         240
ggctaaccat gaactgttga ccttgacgct tccgcaaggt tggctaaccc aacatccgct         300
gggtaaagag attattgctc aggaaagcca gtggcagagc tatgtccact ggccgctgga         360
agtgcattaa tgagtaagtg ccggatgcga tgctgacgca tctttttccgg ccttgattat         420
ttccctcgg                                                                429
```

<210> 5490
<211> 537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(356)
<223> similar to gi1742763 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5490

```
tgacagacat agtcagaaca gttatcgcgg cttattgaaa atcatgccga cggcaaccaa       60
tgcgcgcaat ttcactcagt gcgactcaat gctgattggc gctaattgtg gggcgcatac      120
cttcccgtat gttgagtgtc gtaacaatag tgcgcaactg gaacacgagg caacgacatc      180
acgtattggt gaagatcaac tgttttactg cctgcaacgc gggatcagcg aagaagacgc      240
catctcgatg attgttaacg gtttctgcaa agacgtgttc tcggagctgc cgttggaatt      300
tgccgttgaa gcacaaaaac tcctcgccat cagtcttgaa cacagcgtcg gataaggaat      360
aaacatgtta agtattaaag atttacacgt cagcgtggaa gataaagcta tcctgcgcgg      420
attaagcctc gacgttcatc ccggcgaagt tcacgccatt atggggccaa acggttcggg      480
caaaagtacc ttatcggcaa cgcttgccgg gcgagaagat tatgaagtga ctgtccg        537
```

<400> 5491
```
tgctgcgtcg tccggaaatg acttatgaaa aattaaccac gctgacgccg tttgcccctg       60
cgttgacaga cgaacaggcg gcggaacagg ttgagattca ggttaaatac gaaggttata      120
tcgcgcgcca gcaagatgag atcgaaaagc agctgcgtaa cgagaacacc ctgctacccg      180
cgacactgga ttaccgccag gtatccggtc tttctaacga agtgatcgcc aaacttaacg      240
atcacaaacc agcctctatc ggccaagctt cgcgtatttc tggcgtcacg cctgcggcca      300
tctccattct gctggtgtgg ctgaaaaaac agggtatgct gcgtcgtagc gcataacgca      360
ttaaaaatgc ctggtaagca cccgcttacc aggcaacgca tcaagaacag gtaatcactg      420
tgctccacga cctctcagtt gtgtatcaaa cacgcaggta tctctctcgc c               471
```

<400> 5492

```
ttactaattc catgtcgcgt cccggagatc agccccactg taagggcggt cgcgggatca      60
atgcgcgtcg gctccgggac ggcgctggtg ggcgatggtc ctacggtcgc tgcgcgaatc     120
aacgaatatg ccgcgcttgg catcgacagt tttgtgcttt cgggctatcc gcatctggaa     180
gaagcgtatc gggttggcga gttgctgttc ccgcttctgg atgtcgccat cccggaaatt     240
ccccagccgc agccgctgaa tccgcaaggc gaagcggtgg cgaatgattt tatcccccgt     300
aaagtcgcgc aaagctaagg aagaaataat ggcaacgcca gtgaagaagt ggttattgcg     360
cgttgccccc tggttttac cggtgggcat cgtggcggtg tggcaactgg gctcctcggt      420
tggctggctg tcgacgcgta tttt                                            444
```


        <210> 5493
        <211> 469
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3)...(241)
        <223> similar to gi405858 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5493
```
cgctggtggt tggctggaat attcaggata ccacccgtct gtggctggag ggctggattg      60
ccagtcaaca aggatggcgc attgatgtcc tcgcccactc gctcaatcaa ctacgccctg     120
aactattcga aggccgtaca ttgctggtgt ggtgcggtga aaatcgaacc tccgcccaac     180
agcagcaact caccagttgg caagaacaag gccatgatat tttcccactc ggcatttaat     240
gattcgttaa caaatgcgct ttactgtaca atcctttcgt taacataagg agtgcattat     300
gcgcatagct aaaattgggg tcatcgccct gttcctgttt atggcgttag cggaattgg      360
tggcaacatg ctcgcaggtt atacctttat ttggcgtgca aggtaagtga gtgcggcaac     420
ctctatgatc atcccgttcg cgatgatgtg agcgcctaac ataaatgcg                469
```


        <210> 5494
        <211> 563
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (565)...(197)
        <223> similar to gi537108 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5494
```
ctgtggatcc atcccttcgg caaatccgac gacggcagct accagaacga gggcaataaa      60
```

```
gccgttaact ttaaagccga tcatcaggat aagaagcagc gcgacgcctg ccgcaataat      120
gattaatggc atagtctttta tctcttatta gtgccagaaa agcagcgctt tcgcgctgca      180
cgtagggggg ctgttaaaca gccactaaca tgccgccatc aacaaacaac aggtggccgt      240
ttacgaaatc agaggctttt gaagaaagga acaccgcagc accaatcagt tcctgcggat      300
ctccccagcg tgcggcgggg gtccgtttgc acaaccaggc ggtgaaggct tcgtcctcaa      360
ccagtgcttt agtcatttct gtttttgaaat agcccggcgc aataccgttg acctgaatat      420
tgtggcgcgc cagctcgacg cacatgccgc gggtgagcat ttttaccgcc cctttcgatg      480
cggcataagg ggtgatggtg tcacgtccca gttcgctttg catcgagcaa atattaataa      540
ctttccctgc cttgcgttca acc                                             563
```

        <210> 5495
        <211> 533
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (536)...(150)
        <223> similar to gi405852 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 5495
```
gattacgaat tccatgtccg tacccgtaca tctccgggac tgggacattc ctgaggttac       60
ccaaactgat ctcatcgcaa ccgacattgc ttaacgccgt cagggcctgc ggtgtcagtt      120
ctaataattc cggacgtagt gaattcatga ctgaagattc tccgcaagcc atgatgccag      180
ctcgcccggc gtcatggcgg ctatttgtgc gccgacatta accagcgcct gggccgtatc      240
gcggtcatag caaggtgttg cggtgctatc gagcgctgcc agtcccagca ctttgatgcc      300
gctctggaca cactttttca cctgatgcgt cagtaatgat gatgaacccc cttcgtaaaa      360
atcgctcacg aggataatga cgcttttcgc tggttgttca ataagttgcc gaccatactc      420
cacggcactg gcgatattgg tcccgccgcc caactgtact ttcattaata actctaccgg      480
atcggcaacg tctgccgtga gatcaacgac gcttgtgtca aacgccacca gat            533
```

        <210> 5496
        <211> 389
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (391)...(83)
        <223> similar to gi4062233 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

<400> 5496

```
gcattcagcg cgacgattcc aggccgctac ccgttcttgt cgttgagatt gttcaatttt      60
ctgcgtcatt ttgattgcct tattcttcgc ggatgccgga aagttctgca cgggagagca     120
ccagacgggc gcgatcgata accggaccgt ccaccatctt gccgttcagg gaaaccacgc     180
cgaggccttc gcgagcggcg gcttcagcgg cttctacgac gcggcgggcg tgatccactt     240
ctttctgggt cggggcgtat aggatgtgca gcagatcaat ctgacgcggg ttgatcaacg     300
atttgccgtc aaagcccagc tgtttgatgt gggcggcttt ttgcacaaat ccgggttcgt     360
tgttagcggc ggaattgacc cgattgaaa                                       389
```

<210> 5497
<211> 590
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (592)...(92)
<223> similar to gi3041757 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5497

```
gaactgatta agagatccat aggtgaagaa gaaaaacggg gccagcaaca ataaccagcc      60
agcgccttgt agcaatacgt tccgacgttc agttatcacg acgcaccgcc atcgaaaccg     120
taaaaatacc ccactcatca atccgttgtg tgcatttatc aaatccggca tcacgcacga     180
gtgaatccat ctccccttgc gaacgcacgc gcattaccca cggtttacca tctttatgac     240
tgggtaacac cccggcaatc atctccagtt gagggtgcca cggctgcccg gtgtagatga     300
gaatgccgcc cggttcgatg gcattggcaa gacctgcgag tgagtttttt acctgctcat     360
tttcgggaaa aagctcatac aggccagaga caatcgccag cgtaggccgc ggagttaacg     420
cgctgagttc ctccgggtta aacgcatcgc cctgttcaaa acgcacccgc ccagacattc     480
cccgttgagc aatcatctct tgcccctgtg caacatttaa ctcgctgtaa tcacgtaaca     540
aaatatcgct tacggcaggc tcgtttgcca gcgcatccag tacatagcgc                590
```

<210> 5498
<211> 567
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (28)...(346)
<223> similar to gi987639 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5498

```
aagtaggaca cgattacgaa ttctaggtcc gtacccggac atcggctatt atgcatttac      60
tacgccggtg cacgactcaa tttactcctg gcggaagatg agatgctgcg agtgggcgga     120
aaagtgctgg cgattaccgg ctttactccg aatgccctgc aacagcgtgc ttctcattgc     180
ctgtatacca ttgccgaaga acaagcgaca aacagtgctt caatctctgc ttgtcacgct     240
cagggaatgt taacggattt gctgttcatt gcgctgattc agcaggatct ggaactggca     300
ccagaacgta ttcgtcatag tgaagcgctg gtgaaaaaac tggtctgagt aaagaatgcg     360
cgtataatgc ccgcccggtt tgtgttgttt tgagagtttc cttatggcgt tgttaatcac     420
taaaaaatgc atcaattgtg atatgtgtga acccgaatgc ccgaatgagg cgatttcaat     480
gggagatcat atctacgaga ttaacagcga taagtgtacc gaatgcgtag ggcactacga     540
gacaccaacc tgccagaagg tgtgccc                                         567
```


<210> 5499
<211> 336
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (12)...(285)
<223> similar to gi882573 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5499

```
cttgtaaaac agttatgacc atgactacga atttcatgtc gcgacccgga gatcgtctgg      60
actataacaa acatactgat atccgcggta ctactgtcgt tggcgaacgt attctggaca     120
gccagagcgg cgaagtaact ttaggtactc cggtagtaat tacgttcaac aataccaaca     180
gctatcagga actgaatttc aaagctcgta tggaatcccc aagcaaagat gccaccccgg     240
gcaacgttta cgctcaggct gactacaaga ttgcttacga gtaatcgcat ttggccgggt     300
tcgcccggcc acatcattaa cggattaatg ataagt                               336
```


<210> 5500
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(312)
<223> similar to gi1789617 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5500

```
ccctggcgat gaccgactgc tcaacgccgg aagacggcct ggcatgccaa aagctgggag      60
ccgaaattat tggcactacg ctttctggct ataccacgcc tgaaacgcca gaagagccgg     120
atctggcgct ggtgaaaacg ttgagcgacg ccggatgtcg ggtaattcca gaagggcgtt     180
acaacacgcc tgctcaggcg gcggatgcga tgcgccacgg cgcgtgggcg gtgacggtcg     240
gttctgcaat cacgcgtctt gagcacattt gtcagtggta caacacagcg atgaaaaagg     300
cggtgctatg accacactgg cgattgatat cggcggtact aaacttgccg ccgcgctgat     360
tggcgctgac gggca                                                     375
```

```
        <210> 5501
        <211> 846
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (831)...(504)
        <223> similar to gi4062221 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 5501
tttagttcgg acgttattga ctatattaat tggttgttca aggcctctga gatttttctc      60
aagatggtga tgcagattta accctgttgt cgtcggcgcg ataccttttc ctgagcgaat     120
gaataaaggg tcattaaatt gcgcacgtaa gcgttgtaac gactggctca cggctgatgg     180
ggtgatatat agtgattcag cagctttgct aatgcttaaa tgctggtaaa tacactcaaa     240
tatgacaaga agatttaagt cgaacttttt caagtcgtag agattggcca tacactactc     300
cggttatatt tttcttccat gatatattca cttaatcaat gttttttgcg tatatatttt     360
tattgattat gatttttttgc ttaactcagg attaagtttt tctaaaatag cacagccact     420
tatggcagag cgagcaattc atgctttttt aggatggttg aaaagcaggg atatagttca     480
accatccatg aattaccttt tatttattcc ccataatgat attaagcgtt ttctgatcgg     540
gcaaccccac ggcctgttgt agcgtatttt ccttactcat gtaatagata gccggcgtga     600
catttgcccc cagatcgtcc atcagtttat cattgtcact taacactttc atttgctctg     660
tacttacgtt tgcaggcacg tttagcttaa gcttgccacc agaggcttca tattgttgcc     720
aggttttttgc gggatctttg gaggcaagaa ttgccgctgc tgtcgccggg ctttctggct     780
tgatagcccc agccagcaat gttgttaatt gcactttgtc agagtctgcc cgcaagacgg     840
accgga                                                              846
```

```
        <210> 5502
        <211> 353
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2)...(295)
        <223> similar to gi1789468 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
<400> 5502
ggattcggta gtgcgtgcca aaaaggtttt tggtgaaaac catatcacca ttatctcgca       60
agaatttcat aatcaacgcg ccatctggct ggcaaaacag tacggcatcg acgctatcgg      120
ttttaacgcg ccagacctca atatgaagca cggtttttat actcaactgc gggagaaact      180
cgctcgtgtc agcgccgtga ttgacgccaa aatcctccat cgccagccga aatatctcgg      240
gccttcggtc atgattgggc cgtttagtga gcatggctgt ccggcgcaga aataatgcgt      300
atctgcgcac gtcgaagatg aaaaaggcgt gctacattgc cgacagaatc cct            353


<210> 5503
<211> 637
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(437)
<223> similar to gi1651350 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 5503
aaagacattg gcgcgctgga ggaagtgtgg ggcagtagcg tgatgaatcc gtggctgccg       60
aaagagcaac aaagtagcat tctgaaagtg acggtgcttg agcatcatcc gcattacgcg      120
atgaccgcgc tggcgctggg cgatcagcat ttgtgggtca ataagctgga cgaaccgctg      180
caagctgcgc tacgtatccg cattcaggct tccgatgttt ctctggtttt acaaccgccg      240
cagcaaacca gcattcgtaa cgtattgcgg gcaaaagttg ttaatagtta tgacgacaac      300
ggccaggtgg aagtggaact ggaagtcggc ggtaaaacgc tgtgggcgcg tatcagcccg      360
tgggccaggg atgaactggc gatcaaacct ggcctgtggc tgtacgcgca aattaaaagt      420
gtgtcgataa ccgcctgatt aaatcaggtg gctataaatg aactgggcaa tgctgtcggt      480
ggtgttatca ccaatcacaa tgttggcgcg cgctttttacc gcgtcatcgg cgttgcccat      540
cgccacgcct gtaccagcgg cttccagcat actgatatca ttaaagttat cgccgaatgc      600
cacgacgttt tccatcgacc aaccttgcgc ctcaacc                                637


<210> 5504
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (308)...(135)
<223> similar to gi882661 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
<400> 5504
tgcctacggt tctggcctgg ggacttgtag gcctgataag acgcgtcaag cgtcgcatca        60
ggcgctgaat gtcggatgtg gcgtgcggcc tacaaatcaa accaaattca attggttacg       120
attatcccgt caaagtaatt ttttcgctaa cgtccagacc ccggtattcg tggtggaaag       180
cgccacgaca cccgcgttaa tcgcattacg cgcatcttct tcatcgcaca ccagcccacc       240
ggcaatcagc ggttggcgga ttttctctgt cacccagccc agcactttgg gcatacagcc       300
tggca                                                                    305


<210> 5505
<211> 157
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(89)
<223> similar to gi216531 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 5505
atcgcccttg cggcgttcct ctttgccaca gtgccgaacg atacgcatca aaatgtagct        60
atttcgcggc gaaaaaggag cgcgcaatga agttctggcg acccggtatt accggcaaac       120
tgtttctggc gattttcgcc acctgcattg tcttgct                                 157


<210> 5506
<211> 404
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (406)...(47)
<223> similar to gi396335 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 5506
catttgggct gttcctaagt gcgtcaggcg gtcaagtgta tcatcactca tactctgccc        60
gacacatcgc caccgtatct tctatcagac ggcgcgctac ggtgccgggc ggcgggagta       120
acggcaaatc gtcatagcga taccagttcg cctcgagcaa ttctttcggg tcgatcacga       180
```

4031

```
tgtcgccgct gtcatattcc gccataaacg cggtcattaa agactgagga aacggccacg    240
gctgagaagt cacgtaacgc aagttttaa ctttaattcc gctctcttcc atcacttccc    300
gcgcgactgc ctgctcgagg gtttcgccca cttcgacgaa tccggcaagt actgtatgga    360
caccgttacg atggcgggta tgctgtgcga ggaggatcga atca                    404
```

<210> 5507
<211> 730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(733)
<223> similar to gi41437 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5507
```
tgtttgaccg tgaacgcggt gcttttaccg gtgccagtgc ccatggtatc ggtcgttttg     60
aactggcgga taaaagctcc ctgttcctcg acgaagtggg cgatatgcca ctggagttac    120
agccgaagtt gctgcgtgta ttgcaggaac aggagtttga acgtctcggc agcaacaaaa    180
tcattcagac ggacgtgcgt ctaatcgccg cgactaaccg tgatctgaaa aaaatggtcg    240
ccgaccgtga gttccggaac gatctctatt accgcctgaa cggattcccg attcacctgc    300
cgccactacg cgagcgagcg gaagatattc cgctgctggc gaaagccttt accttcaaaa    360
ttgcccgtcg tctggggcgc aatatcgaca gcattcctgc cgagacgctg cgcaccttga    420
gcaacatgga gtggccgggt aacgtacgcg aactggaaaa cgtcattgag cgcgcggtat    480
tgctaacacg cggtaacgtg ctgcagctgt cattgccaga tattgtttta ccggaacctg    540
aaacgccgcc tgccgcaacg gttgtcgccc tggagggcga agatgaatat cagttgattg    600
tgcgcgtgct gaaagaaacc aacggcgtgg ttgccgggcc taaaggcgct gcgcaacgtc    660
tggggctgaa acgcacgacc ctgctgtcac ggatgaagcg gctgggaatt gataaatcgg    720
cattgattag                                                           730
```

<210> 5508
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (245)...(131)
<223> similar to gi544485 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5508
```

```

```
atgtccgtac ccgtagaacg taacgaatgg caggacaatg gagtgatgct ataaagctgc      60
cacgatgcgc acaccgatgg cttcatcggt cagcaaaata ttgccgaccc ctaagactaa     120
aatacgcatt acagaacctt cactgaaacc acttcgttgc cgtcagcatc cactacgtgt     180
accgcacagg ccatgcacgg gtcaaaggag tgaatggtac gcaccacttc cagcggttta     240
ttc                                                                   243
```

<210> 5509
<211> 352
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (355)...(48)
<223> similar to gi688405 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5509
```
accggcgcaa taaacctgca ggatttctat caggccggga ttatttaatc cttcaatccc      60
agacgtttcg ccagccgatg caggttggcg acgtcggttt ccagcatccg cgcgcaggca     120
gcccagttgt gatgattttg tgccagtgcc tgacgaatag tttcacgctg gaacgcttct     180
gtcgcttcac gcaggttttg cttaacaacg ggcaccgccg ccacttctgg cgtcggcaac     240
gtcacctcag gaaaagcaaa atgttgcgcc tcaagaatca cttcatcgcc gctgcgggtg     300
gctctcgcca gaactaccgc ccgatgaata gcatgttcca gttcgcgcac gt            352
```

<210> 5510
<211> 214
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (217)...(6)
<223> similar to gi1565189 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5510
```
ggttactcgt cagcgatgct tgccggtggc cagttttcca ggcgcatgcc cagagacagt      60
ccacgggaag ccagcacgtc tttaatctca gtaagagatt ttttaccaag gttaggcgtt     120
ttaaggagct caacctcggt acgctgtacc agatcaccga tatagtggat agcttctgct     180
ttaaggcagt tagcagagcg gacagtcaat tcca                                 214
```

```
<210> 5511
<211> 171
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(132)
<223> similar to gi290405 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 5511
caggcgatcg cgtagtaata agtgggctgc agaaagtgcg tcctggtgtc caggtaaaag      60
cacaagaagt taccgctgat aataaccagc aagccgcaag cggtgctcag cctgaacagt     120
ccaagtctta acttaaacag gagccgttaa gacatgccta atttctttat c              171



<210> 5512
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(361)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3)...(282)
<223> similar to gi4062261 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 5512
aacaattagt gcaggcctgc caacctacag aagaatcatt aatgccgatt gtgagccgcc      60
ttgatgcaga aaatcgttgt ccactggaag cattaattat tcgtcgatta ttaattcagg     120
cggcgaattt taccgagaag caaactgttg aaccggagcc gcaaccgcag ccaatgcccg     180
ttgacgatgg tgggccaggc tgtctgggca tcattaaaat tattttctat attttttatct    240
ttgctggttt gatagggaaa atactccatc tgttcgggtg acagtcgacg ttaatgtgcg     300
ggaagcccgg caagtaatct ttccgcattt ttgtaatgtt gcccggcggc cagtnttatc     360
```

<210> 5513
<211> 504
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(505)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2)...(290)
<223> similar to gi145470 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5513
aaaccgttcg cacatggctt acaggaagtc gccaagcggg gtcgcgctgg aatgtaaaga   60
cggtcgtatt ttcagtggca gctacgctga aaacgccgca ttcaacccga ctctgccacc   120
gttgcaggga gcgttaattc tgttgaatct caagggttat gattacccgg atatccagcg   180
cgcggttctg gcagaaaaag ccgatgcgcc gttgattcag tgggatgcca cctccgcaac   240
gctgaaagct ctcggctgtc acagtatcga ccgagtgctt ctcgcttaag cctggtgccg   300
gatgcggcgt gaacgccttg tccggcttgc cagccctctc ctggtgtcga aattcccggc   360
aaacagtttg ccgtttcttg cgcaaaacca gcgggtaaag tagcctgatg gaaattttcc   420
ttagatcgag tctcctgcat gttaaagcgc gtgttcctca gcctgttagt cctgatcggc   480
ttgctgccgt tcnctgtgct nggc   504

<210> 5514
<211> 372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(373)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (372)...(250)
<223> similar to gi1707458 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5514
agaaattaac gcgcgatgat gaggcggaaa agtgagaaat aaatggggtc gctaaatgtc   60
ccctaaggtt gcgggcaaac gcaaaactgc ctgatgcgct acgcttatca ggcctacacc   120
gctcctgcaa tatattgaat tcttgcggtt tcgtaggccg gataaggcgg tcacgccgca   180

```
tccggcatga acaacgcgca ctttgttagc aatctcgggg caactaaatg ttgcccccctt    240
tcgtttttac cctaccgctg gcgtcgggtc atcgcctttg tagtcgcgtt ttacttccgt    300
cacctcatcg cccttctcgt tgtgcagatg cacttcaagc tggttaaagg caatggtgat    360
gtcgntttca cg                                                         372
```

```
<210> 5515
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(546)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (545)...(89)
<223> similar to gi1788699 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 5515
gtgcgccact gatcgcccac ttccttcagt tcatgggctg gtttgttccg cagctccacc     60
agcgcctggc aatatttatt actcattaag cccccacgta attccctgag agataccact    120
cttcacctga tgcagcccgc ttactgcttt tccgtaaaca ccgttcacga cgcgccagaa    180
aattgtttcg ttctggctgg gagtggcttt cacggaatgc cgccatccac accgttgcag    240
cacgacggta taagcccctg gactccagtt cttccgcctg gcgggtcagg cacaaaatca    300
cccgcgggtc gttagtgccg acatagaaat tgcgcacagg tctggtttca cgaactggtt    360
gtggttccgg atcctgcgct ctctcagtca ggcgcgggaa atgtctgtgt gtatctcctt    420
cacaacggtg agccacacgc ccactctgac gtaacttgct tgctgactgc agaacgcgct    480
gccgtgagta acctgcaaaa gcatccgcaa tgtctcccca agtacagccc cgatgggntt    540
caatg                                                                545
```

```
<210> 5516
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(226)
<223> similar to gi1742880 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

<400> 5516

```
ttggccaacg catttacgcc tgcgcggttc gggtttcgtt aatgccgtcg gacggatcgt      60
cgcagtcttc acgccctatg gcgttgcggc attattaaca cattatgggt cgatcacggg     120
gtttatggta cttggtgtta tgttattgct ctgtgcgctg gttctctcca tttttggcat     180
cgaaacgcgg aaggtgtcgt tggaagagat ttctgaggtg aattaaatct ttcgttgatg     240
gcatcaattg ccagatgtgc cactgacgtg ttttatttgg cctacaatgc cagtacagaa     300
ttgttggcca gcgtaaaatt acccctgtgg ctcttcccag tctggcagcg tat           353
```


<210> 5517
<211> 588
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(404)
<223> similar to gi537232 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5517

```
gaaatcaccg gtaggggcca gcggcttgat gcagattatg cctggtacag cgacccatac      60
ggtgaagatg ttctctattc ccggttatag cagtcctggg caattgctgg atccggaaac     120
gaatatcaac attggcacca gttacctgca atatgtttat cagcagtttg gcaataatcg     180
tattttctcc tcagcagctt ataacgccgg accagggcgg gtgcgaacct ggcttggcaa     240
cagcgccggg cgtatcgacg cagtggcatt tgtcgagagt attccattct ccgagacgcg     300
cggttatgtg aagaacgtgc tggcttatga cgcttactac cgctatttca tgggggataa     360
accgacgttg atgagcgcca cggaatgggg acgtcgttac tgatccgcac gtttatgata     420
tgctatcgta ctctttagcg agtacaaccg ggggaggcat tttgcttccc ccgctaacaa     480
tggcgacata ttatggccca acaatcaccc tattcagcag cgatggcaga acagcgtcac     540
caggagtggt tacgttttgt cgacctgctt aagaatgcct accaaaac                 588
```


<210> 5518
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(184)
<223> similar to gi1773175 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5518

```
cgaaaatgcc ggcatcgccg cccgctttac gttgggaccg gaagcggtgg tggacaaagt      60
acgccatgct tttattagcg agaagccgaa gatgcgctat ccggtgacgc tggtgacctg     120
ggcggtaatg gtgcttaagc gcctgctgcc ggggcgcgtg atggacaaaa tattgcaggg     180
gtgagttgaa gcgcgcgctt aagcccccat gtcaaagaaa atatcgacaa catgagagcg     240
actccatgtc cgtagaaaat attgtcaaca ttaacgaatc taacctgcaa caggttcttg     300
aacagtcgat gaccactccg gtgctgttct attttttgtc tgaacggaac cagcacttgt     360
tgccg                                                                365
```

<210> 5519
<211> 578
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(579)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (578)...(399)
<223> similar to gi42034 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5519

```
tggggttcag caaccacatg tacctgatag ctatgacggg cattcagggc atcaagtacc      60
acctgattga catcggcaaa cgtcagttgg atacccgcgt ctgccagcag tttaccgata     120
aagccacgac cgatattacc tgcgccaaaa tgtaatgctt tcatagtatt aaccttcatc     180
aatgttttta cccgagaggg ctggggtgag gctttccct cacccaaacc ctctccgtga     240
ggagaggggc agcgccggat gcggcgtaag cgccttatcc ggcctacaag aacgtgcaaa     300
ttcaacaaat tgtgatgcat cctgtaggcc tgataagcgt agcgcatcag gcaattaacc     360
ccaccttctc catgtggaga gggtgggatt ggattactta cgacctgcca gcagttccag     420
cacttcatcc acgctggtgg tgtgtgccag acgctcgatg acggactcat catccagtgc     480
attggtcagg ctggtgataa cctgaatgtg ctcgttgtta cgggcagcaa taccaatcac     540
cagacgggca atgtcatctt cttcttcncc gtagccca                            578
```

<210> 5520
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)...(325)
<223> similar to gi1789518 in the genepept database release 114,

4038

Run with FASTXY 3.3t00, default parameters

<400> 5520
atatgcccct tgcccatcaa gtgattgagg agcatatcac ggtcaatcca tcatcaccgg   60
cattccgtca tggcaagtcg ttaggctctg ggaaaaataa agactggtca cgggtaaaat   120
ttggtgctgg tcgttatcgt ctcttctttc gttatagtga aaaagagaaa gtcatcattc   180
tgggatggat gaacgatgaa aacactctgc gcacctacgg taaaaaaaca gatgcctata   240
ccgtattcag caaaatgtta aaaagaggac atcctcctgc cgactgggaa accctcaccc   300
gagaaacaga agaaacccat tgatggtgtt cacaatgccc gccgaacgca ttcgtgttga   360
ccagcgggca   370

<210> 5521
<211> 384
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(329)
<223> similar to gi145453 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5521
tatcactgtg atgaactctg ccggaggcaa agcatttgac ctgttcggcg aactgaccgg   60
tatcgcagta ctgctgacta tgctgccgta tttctactct tgcgttgacc tgattcgttt   120
tgaaggcgtt aacatccgca actttgtcag cctgatctgc tctgtactgg gttgcgtgtt   180
ctgcttcatc gcgctgatgg gcgcaagctc cttcgagctg gcaggtacct tcatcgtcag   240
cctgattatc ctgatgttct acgctcgcaa aatgcacgag cgccagagcc actcaatgga   300
taaccacacc gcgtctaacg cacattaatt aaaagtattt tccgaggctc ctcctttcat   360
tttgccccat gtgttgggag gggg   384

<210> 5522
<211> 511
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(171)
<223> similar to gi1800067 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5522

```
actgttgccc attatgcagt tgccagtggc agatattaac gcccagaccg ccattatgca    60
tgacggcaaa gcctcagaag gcgatattca gggacacgtt gatggttgga tcaaagccca   120
ccagcagcag ttcgatggct gggtgaatga ggcgctggca gcgcagaagt aatttttatt   180
cgggcggata aggcgttttt gccgcatccg ccgttctgtg cacaatgcct gatgcgacgc   240
tggcgcgtct tatcatgcct acaaaccaca tcgcacattt caacaatcta tctttcatcc   300
catattcatc aacatccgct attattgatt tccagcttaa tcatcacctg atgaacaaaa   360
ataatgacta aacctaatca tgagcttagc ccggcgctga tcgtgctgat gtctatcgcc   420
accggtctgg cggtagccag taactattac gcccagccat tgctcgacac catcgcgcgt   480
aacttttccc tttccgccag ttcggcaggt g                                  511
```


<210> 5523
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(261)
<223> similar to gi1651330 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5523

```
cagcagtacc gataatccgc cagtgattgt tgaagtgtct ggtattggtc agtacaccgt    60
ggtggttgag aaagatcgcc tggagcgttt accaccagag caggtggtgg cggaagtgtc   120
cagccgtttc aaggccaacc cgaaaacggt ctttctgatc ggtggcgcaa aagatgtgcc   180
ttacgatgaa ataattaaag cactgaactt gttacatagt gcgggtgtga aatcggttgg   240
tttaatgacg cagcctatct aaacatctgc gtttcccttg cttgaaagag agcgggtaac   300
aggcgaacag tttttggaaa ccgagagtgt caaaggcaac cgaacaaaac gacaagctca   360
agcgggcgat aattatttca gcagtgctgc atgtcatctt atttgcggcg ct           412
```


<210> 5524
<211> 773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)...(720)
<223> similar to gi1742424 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
      <400> 5524
catcactgtt cgtcgctgta catcgttcag aatgcgaaaa ccctgctgat acccacctta     60
atcgtcttgc ttcacatgat ggacgtgatc cgccatcatc aaccaataag tcgtcgggaa    120
gccagagcta aagcgattga cctgctggaa gagatgcaaa tcccggatgc cgtggaagtt    180
atgtcgcgct atccgtttga gctttcaggt ggtatgcgcc agcgggtaat gattgcgctg    240
gcattctcct gcgagccgca attgattatt gccgacgaac cgactacggc gctggacgtc    300
acggtgcagt tgcaggtact gcgtttgctt aaacataaag cccgcgccag tggaactgcg    360
gttctgttca tcagccatga tatgaccgtg gtgtcgcaac tgtgcgatag cgtatacgtg    420
atgtatgccg gcagcgtaat tgaaagcggc gtgacggcag acgttatcca tcatccccgg    480
catccgtata ccattggttt gctgcaatgc gcaccagaac atggagtccc acgccagcta    540
ttacccgcca ttccagggac ggtaccaaac ctcacccatt tgcctgacgg ttgcgctttt    600
cgcgatcgtt gctatgcggc aggtgcacag tgtgaaaacg tcccggcgct gacagcgtgt    660
ggtgacaaca accagcgctg tgcctgttgg tatccgcagc aggaggttat aagtgtgtga    720
cacgttatta acgttacgag acgtccctat cccttccccg gcccgtaaaa act          773
```

```
      <210> 5525
      <211> 423
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (426)...(66)
      <223> similar to gi4062426 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters
```

```
      <400> 5525
cccatcatta cgaattcaat gtccgtaccc gtagatcgca cagagtggga aagccttgtt     60
ttatcccttc ctgagaatgt tcgatctgca tatctttttaa aaagataacc atcagcgaca    120
gccacaaaat tccgttgaca aggttgaaga gattaaacag tccgttgccc ccgttcagcc    180
aggcatgttt gctgatttca ataccaacgg taaagatcag catttgcagc attcccatcg    240
cggcagaaac cgtacctta ctcatatcgc tggcaaacag ggttaatcgc accagtcccg     300
cattcgccag accaataccg aaagcataaa tacttaaccc ggcagtcatc cataaatacg    360
cgtgcgatga gataaccgtt gccgcagcag cgaccaatag accaatcata atcggccagc    420
cgc                                                                  423
```

```
      <210> 5526
      <211> 648
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (627)...(45)
      <223> similar to gi504496 in the genepept database release 114,
```

Run with FASTXY 3.3t00, default parameters

<400> 5526
acggcaaagg gaagagaaag ttgcccgcat gggcgggtaa ctaccttaca gcccccgcca   60
tccatgccga taactcccgt agctcttttt cctgttccgg gaagtcaacc aacagcgctt   120
cgcactcctg ttgcagcata tctgcgcggt acaggcagcc ttgcagtcgt ccggcgaggg   180
cttccagcgg cgcggggttg aggctgtcgg taaacacctg ggcgcgggtg atatggcctt   240
tttcaacgtc gaaatgcagt tccacgccgc cccaggtaaa gcgttcatcc agcagatgcg   300
agaatgccgg agcctgaccg aagttccatt cccagctact ctggcgggca aaggtttcgg   360
cgaagtttgg caagtctggc gttttgttcg gggagatgat ttccgcttcc acgcgctcgc   420
cataatgggc gaaaaaggcc tcggttatgg cctcgcaaac ctgctcatgg gtgatccccg   480
gcaacagctc ggtgaggttg gtcacgcggg aacgtaccga cgtaatgcct ttcgccgcca   540
gtttcttttt atccggattg agatagtttt ccaggccaag gagattaact tggataacca   600
cagggttttg gcagtcacca cgatgtacag gtacggacat agaattcg   648

<210> 5527
<211> 417
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(418)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (6)...(300)
<223> similar to gi1788533 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5527
tggcagacca ggaaaactgt ctcaactttc aggggctgcg ctgcgatgtt tgttatcgcg   60
aatgcccgaa aattgatgag gccatcaccc tggagctgga gcgcaacacg cgtaccggta   120
agcacgcccg ctttctgccg acggttcaca gcgacgcctg taccggttgc ggtaagtgcg   180
aaaaagtatg cgtgctggaa caaccggcaa tcaaggtgtt accgctgtca ctggcgaaag   240
gggagttagg tcaccattac cgcttcggct ggctggaggg gaacaatggc aaatcgtaaa   300
cgtgacgccg ggcgcgaggc gctggagaaa aaaggctggt ggcgcagtca ccgttggctg   360
gtgttacgtc gcctttgtca gttcttcgtg ctgnggatgt ttttgagcgg tccatgg   417

<210> 5528
<211> 380
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (377)...(198)
<223> similar to gi457174 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5528
atggtaccgc attattacca tgtacgaaga ccagcagcct gataactggc gcgtacaggc   60
gatactgtat gcatgagtgt catctacagc aaatgaacaa tgccggatgc ggcgcgagcg   120
ccttgtccgg cctacaattt tcacatattt catttagtta atcgaaacca gcgtcgcatc   180
agtcgtatac gcttacacac acactcccc cgtcgcccgc agcaataaat cattctggat   240
ctgctctgac aaccgtacgc cgccgcgcgt atctaacatc acctgacacc acgcctgcgc   300
cattggcgga gaagcatatt tcaacatttg cgcaccgcag cccagcagga atagctgatg   360
agtaatctct cgctccactt   380

<210> 5529
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)...(472)
<223> similar to gi1773101 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5529
ccgcttcgac gatttcgtac gttgccgatg ctaaagatgc ggactacttg atcaaacgtc   60
atttccgtct atcgccgcgt attttacagg ggcaggcact gcgcgatctg gcaaattcag   120
ccatcgatct ctctgacggt ttgatttccg atctcgggca tatcgtgaaa gccagcgact   180
gcggcgcacg tattgacctg gcattgctgc cgttttctga tgcgctttct cgccatgttg   240
aaccggaaca ggcgctgcgc tgggcgctct ctggcggtga agattacgag ttgtgtttca   300
ctgtgccgga actgaaccgt ggcgcgctgg atgtggctct cggacacctg ggcgtaccgt   360
ttacctgtat cgggcaaatg accgccgata tcgaagggct ttgttttatt cgtgacggcg   420
aacctgttac attagactgg aaaggatatg accattttgc cacgccataa agatgtcgcg   480
aaaagtcgcc tgaagatgag taatccgtgg catctacttg ctgtcggatt cggaagtgga   540
ttaagcccga tcgttcctgg gacgatgggc tcgcacgata tcgtcgaccc gggaa   595

<210> 5530
<211> 646
<212> DNA

4043

<213> Homo sapiens

<220>
<221> misc_feature
<222> (649)...(351)
<223> similar to gi4062774 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5530
caaaaaaatc atccatccgg ctggtcagca actgtagttg ttaatgtgac agagccattg   60
cccatgatag tgtccattaa aaggatggac actatttccc cggaacctca actcgccgca   120
caggcgttct acatagatcg cttccgtttc attgttgact agaactggac atcagataaa   180
tcgcgcttta cccttgatgg agcctgtaca taggtggtgt gtaattgcct gcttgggata   240
tgttcatttc accatcaaat gaaggttaaa ttatggacga caaacaattg caggctcagg   300
ctgcgttcag caaagcatcg caaccggcga tagatgcttc attaaattta agattcagct   360
tcctcttcag ccacccgtac gccaatcttc aacacttcat tatcttcttt ctcggccacc   420
gtccagatca tcccggcaaa ctctacctgg tcaccgacaa ccggtgccgc gcctaacaac   480
tgctggacaa tttcacccag cgtttgctgc ttatcacgat attctcgccc gtcttccagg   540
ccatatatca gcgcaacatc agcatatttg gcgctggctt cgagaatgaa gtcaccaaag   600
aagcgttgat ccagcgcgac cggcggcgac tggctgaaca gtttac   646

<210> 5531
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)...(569)
<223> similar to gi41625 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5531
aacgacaggt tctctgactt aacgccagaa acgctggtta cgcgcaataa agcgcagcta   60
aaagcgttct gggagaaaca cagcgacatc attcttaagc cgctggacgg tatgggcggc   120
gcgtcgattt tccgcgtgaa agaaggcgat ccaaacctcg gcgtgattgc cgaaaccctg   180
actgagcatg gcactcgcta ctgcatggcg caaaattacc tgccagccat taaagatggc   240
gacaaacgcg tgctggtggt ggatggcgag ccggtaccgt actgcctggc gcgtattccg   300
caggggggcg aaacccgtgg caatctggct gccggtggtc gcggtgaacc tcgtccgctg   360
acggaaagtg actggaaaat cgcccgtcag atcgggccga cgctgaaaga aaaagggctg   420
atttttgttg gtctggatat catcggcgac cgtctgactg aaattaacgt caccagccca   480
acctgtattc gtgagattga agcagagttt ccggtgtcga tcaccggaat gttaatggat   540
gccatcgaag cacgtttaca gcagcagtaa cccaccttag cgagaa   586

```
        <210> 5532
        <211> 808
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(734)
        <223> similar to gi581095 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 5532
     catgttatcg gagacctgcc aacgtatggt tatcgtcggg tatgggcgtt gcttcgcagc     60
     cagccagaac ttgatggtat gcctgcgatc aatgccaaac gtgtttaccg gatcatgcgc    120
     cagaatgcgc tgttgcttga gcgaaaacct gctgtaccgc catcgaaacg ggcacataca    180
     ggcagagtgg ccgtgaaaga aagcaatcag cgatggtgct ctgacgggtt cgagttctgc    240
     tgtgataacg gagagagact gcgtgtcacg ttcgcgctgg actgctgtga tcgtgaggca    300
     ctgcactggg cggtcactac cggcggcttc aacagtgaaa cagtacagga cgtcatgctg    360
     ggagcggtgg aacgccgctt cggcaacgat cttccgtcgt ctccagtgga gtggctgacg    420
     gataatggtt catgctaccg ggctaatgaa acacgccagt tcgcccggat gttgggactt    480
     gaaccgaaga acacggcggt gcggagtccg gagagtaacg gaatagcaga gagcttcgtg    540
     aaaacgataa agcgtgacta catcagtatc atgcccaaac cagacgggtt aacggcagca    600
     aagaaccttg cagaggcgtt cgagcattat aacgaatggc atccgcatag tgcgctgggt    660
     tatcgctcgc cacgggaata tctgcggcag cgggcttgta atgggttaag tgataacaga    720
     tgtctggaaa tataggggca aatccaataa acaattggaa tttacttcca ttgatctgtt    780
     tactcagtgg ttgtcacgtt ttcgagga                                       808




        <210> 5533
        <211> 384
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (385)...(238)
        <223> similar to gi1736484 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 5533
     gagatggaaa aactaacagc tgacattgtt gcctggcggc ggccctcaca aactccagat     60
     gatgagctac ctgttcggtg agtgaggttt tacgaggctc atattgcgct gctgcaactt    120
     tccagaacga cataatgact tccttttcaa aatgactgca aattatgagt gcggtttaga    180
     aaatactcat aatttagcag gcgttatgta agaaagtgta actctgtata agtttttattt    240
     aagtttgggc tcgtaaggta aacgtgacag attgaccgaa gccaaacggt gggcaataag    300
     ccgctcgcga aaccagctgc gcaaatgttc aggctgttca cgttcaaccg cttcagcgat    360
     caccggcata ttgtagcgtt cttt                                           384
```

<210> 5534
<211> 1542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (40)...(523)
<223> similar to gi665970 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5534
tttcgtgtgg actggggccg gataatggcg ggcgctgcag aagatgcgcg agctcttttc   60
cgggctgggg tctgcgcggc cctggaggcc tggccggcct tgcagatcgc tgtggagaat   120
ggcttcgggg gtgtgcacag ccaggagaag gccaagtggc tggggggtgc agtggaggat   180
tacttcatgc gcaatgctga cttggagcta gatgaggtgg aagacttcct tggagagctg   240
ttgaccaacg agtttgatac agttgtggaa gacgggagtc tgccccaggt gagccagcaa   300
ctgcagacca tgttccacca cttccagagg ggtgatgggg ctgctctgag ggagatggcc   360
tcctgcatca ctcagagaaa atgcaaggtc acagccactg cacttaagac agctagagag   420
actgatgagg atgaagatga tgtggacagt gtggaagaga tggaggtcac agctacgaat   480
gatgggctg ctacagatgg ggtctgcccc cagcctgaac cctctgatcc agacgctcag   540
actattaagg aagaggatat agtggaagat ggctggacca ttgtccggag aaaaaaatga   600
gtggggatga ttggaaatgg ctttgggccc ttatttgctg ttctaagagt tgtctgtagg   660
ggtttttttt tttgaggatt gaagacctgt gggacttggt taccccatct ccaccctctc   720
ccctgttcct ctgtctggct ccctccaggg caaggaaaac ctagggtcct tggtcttggg   780
ggtgggggga ccttttccag catattcccc tgggccttta gttaacatcc gagtgacgaa   840
gccgggttcc ccagtacagt gtcttttggg tgcggtcatt gtgaggaagg ggatgagtga   900
gtgtgggtgt ggctggagga ggagctagat gccggtggac agtgggcagg tggatttggg   960
gaggagagga tcagcagcag cagcagtact cagtgatagg gggctggctg ggtcaggaat 1020
ggtgagatga acatgcaagt ggaagagaga atagttgaaa atgtgaatga aagtagctct 1080
ggagcctctc ccttacccca ccccacacac acgcaacagc tctgtacccc tgcccagaac 1140
ttggaacctc ccaggaatgc tgccttcctt cagcccagcc tccagtcctg ggttccctca 1200
ggaattcgaa gaccttggct aggtggtgag cttggaagag ctgggctttg ttttctgtct 1260
cctctaacct ctttccttac tccttatccc atcccatttg agttcagggg tgaggcttaa 1320
gatcttaata aataatacct tactgcttaa tctgtggctt gacctgtgag tagtagcctt 1380
agaatcagcc ttctgggagc tcagcttcag agtttacaag ggagcagttt ctgggcccac 1440
cctagcagcc tgggtacttt ggacaaccaa acagatgaac gaacggagca cagcagtgct 1500
atgaaagtta ctgtaagcct gaaaataaac tggtattttt ct   1542

<210> 5535
<211> 1072
<212> DNA
<213> Homo sapiens

<220>

4046

<221> misc_feature
<222> (1)...(1073)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (142)...(359)
<223> similar to gi3878319 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5535
```
ggtggaattc ctgcgtacta cggcttcttc cagtcacctc ggcccggatc gggaagtgtc      60
aagcgggcgc tcccccatct ccgccgctat taccactgaa cccggacccc ctacccaggt     120
ccagggccag ccgccatgac gaacgtgtac tccttggatg ggattctggt gtttggtttg     180
ctctttgttt gcacctgtgc ctacttcaag aaagtacctc gtctcaaaac ctggctgcta     240
tcagagaaga agggtgtttg gggtgtgttt tacaaagccg ctgtgattgg aaccaggctg     300
catgctgctg tggcaattgc ttgtgttgta atggcctttt acgtcctgtt tataaaatga     360
attccaaagc acccaagtca tcaactgcca accaagggga cggggatgaa gaacctgttg     420
gagacctgaa cccagtgtag gagagttcag ctgaaatcat cggtccccag gatgacacca     480
cagcatctgc ccctgctata tgtggggaaa actcatggtc acgaacatta tttatgcttc     540
aggggactac agaaagccag cttcctttga tctatgtgta aatcagtcct tggcagagtg     600
catataatgt ccggataaat tacacccctc ggtgataaga ttacatacct ccttcataaa     660
aacctgtcat cctgttttgt tcttcagctc ctcatcagga tctttttcaaa ctgaggctca     720
ttagggaagg aactaggctg tgttcagact tcttttgaag agagagaatt ttcaagactt     780
cttttcactc tttgatttgg atctggcaaa ttggggaggg gatgctgggt gggaaacagt     840
tatgaaaatg ccaaagaaaa ttctttggct ttagaaaatt ttatcctttc atggtaaccc     900
atccggggaa ccttaaaaga gagggcatag tgcttcattg gcaaaaagag gaacagatga     960
agtagctgtg tttatgtggc tgggtatctt tgagagtttt tgcccaagga aantctgggg    1020
cctacataaa tttggggatt tttccgtgtg gtggggaccc ggaaggcgtg gc            1072
```


<210> 5536
<211> 989
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (876)...(526)
<223> similar to gi577311 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5536
```
tttttttttt tatctttctg ttctctgttc attgaacatt ggtttttaag gttccaaacc      60
tactaaatga aaagtggaat gaatggtact tgtagcttgg atttaactca attttgaata     120
ttgtcaatct agtacaattt cttaaattta gcttaagata tctgcaaagc caacaatgtt     180
tctaagacaa gatgaggtta cgggcttcaa tcaataagaa aaataaaaaa gcaattaatt     240
tattatttgg aacccaccag gtcattatgc attaattttt aaatactgca acttcatgtt     300
```

```
ttatagaaac tagaaacatg attcaaaatg tcacaaagtt atattaaatt aaaaccactt      360
tagacaattc aaggtctcac tgaccaaagt ccattaaggt gacagttttg ctgttttgtt      420
actggttccc acatgatatc atctcttctc aatttcattt gaagattatg aactcgtatt      480
ggatgaaagc tgctgttttt ctgaaaaagg ttagtgtcag tcaaacattt tctggggcta      540
tttttatgt tctttgatcc tttagggtag ctgtcttctt gctgaatacc tgaagcttca      600
ctcatctttg agttttgaac tttttgctgc agtttacaga cactgtcttg atgcttcttc      660
agtttggaga tttgttctcc tttaatttcc attttcttga gtaaacactc tagttcacat      720
tctatgtcgt cacagactga atgactttca gtttccttca tttgtttcag tagttcttgg      780
tgctccatgc tcatttggtc cagctcatct tgcattgcca tcaaaagttc agataaaattg      840
tcacaaatgg aaatggactt ttctgagtca ggaggaatag ctttacacca ggaagttgtt      900
ctagaaggct tggggagaca tctagtctca gtcacgttaa aaggtttctg aaggatatgt      960
gggtcacgat gttgcctcat ctgcaaaaa                                        989
```

<210> 5537
<211> 322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (308)...(112)
<223> similar to gi5689427 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5537
```
ctacatggtc cctctcatga gtctctgtgc cagaggttgg tggggaagg gagaaaggaa        60
aggagggaga ggatgtcact gtcctcaaac cgagcttctc tgctccatgc tatcctgggg      120
gcttcaggtg aatggctgcg ctgttggggc gagcagccag gatgtagagg acattctctt      180
gcaggaaggt aggccagtcc acaaatctgg actcctgctc tgtgggcagc agggtcttgt      240
cctgactctt gctgctgctg ctggctgggc tgctatctgc gatgggaccc acatggctga      300
tgctgacacg aaatcgtcga cc                                               322
```

<210> 5538
<211> 1825
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (628)...(1595)
<223> similar to gi2589223 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

<400> 5538

```
ctcttttatt ccctttttcga cgatttcgcg ggacatgaca gctttaaccc atgactcaaa    60
gtctcaggga ataatacaca gtgttgaaat gcctctcttg cctaccaggt ctcaagtttg   120
acatgaaata catgaacttc cgtgtgaagg cctgtcacaa ggcagttgca ggagagttct   180
ctgagccggt gactctggag acaccaggtg actggaatcc cagcactttg ggaggccgag   240
gcgggtggat cacttgaggt caggagttca agaccagcct ggccaacatg gagaaaccct   300
gtctctacta aaaatataaa aaattagccg ggccatggtg gctcacgact gtaatcccag   360
ctactcagga ggctgaggca ggagaatcgc ttgaaccagg gagtcggagg ttgcagtgag   420
ccaagatcgt gccactgcac tccagcctgg gtgacaagag caagactctg tctctaaaaa   480
aaaaaaagtc tccccccctgc caaacatgga accccttttgt ggccatgccc ccaaaattgt   540
ccaacatgtg gttgggcagc cctgcaggaa gcccctgcc ccctgaacca ggcacagaat   600
cccgaccccc tctccttttcc gtcttggtca gggcccagcg cacccgggat cgacctggct   660
gagtccctgg tggcagataa ctgtgtgacc ctggtgtggc gcatgccgga tgaggacagc   720
aagattgacc actacgtgct ggagtaccgg cggaccaact tcgagggccc gccccgcctc   780
aaggaggacc agccctggat ggtcatcgag ggcatccggc agacagagta caccctgaca   840
ggtctcaagt ttgacatgaa atacatgaac ttccgtgtga aggcctgtaa caaggcagtt   900
gcaggagagt tctctgagcc ggtgactctg gagacaccag cgttcatgtt ccgcctggat   960
gcgtccacat cccaccagaa cctgcgggtg gatgatctct ccgtggagtg ggacgctatg  1020
ggcgggaagg tgcaggatat caaggctcgc gagaaagatg gcaaggggcg gacggcgtct  1080
cccatcaact ccccagccag aggtactcca tctcccaaga ggatgccctc aggtcgtggg  1140
ggacgggacc gcttcaccgc tgagtcctac acagttctgg gggacacgct gatcgacggc  1200
ggggagcatt actgggaggt gcgctacgag ccggacagca aggcgttcgg cgtgggcgtg  1260
gcctaccgca gcctgggccg cttcgagcaa ctgggcaaga cggccgcctc ctggtgcctg  1320
cacgtcaaca attggctgca ggtcagcttc acggccaagc acgccaacaa ggtcaaggtg  1380
ctggacgccc ccgtgcccga ctgcctgggt gtgcactgtg acttccacca aggcctcctg  1440
tccttctaca atgcccgcac caaacaagtg ctgcacactt tcaagaccag gttcacacag  1500
ccgctgctgc ctgctttcac ggtatggtgt ggcagcttcc aggtgacgac aggcctgcag  1560
gtccccagtg ctgtgcgctg cctgcaaaag cgaggcagtg ctaccagcag ctccaacacc  1620
agcctcacct aggcccccag gcacccaccc agctggggtg tttttggggg agtcgccgcc  1680
aagcccaggc tgctggagcc aggcaccctc ctctgtcact tgctgcttgg agccttaact  1740
ccagatgggg gggtcaccaa gagggagtgg gcaccctggc gggccctctc cccacctcac  1800
ctcttaataa aggtcagaca ctggc                                        1825
```


<210> 5539
<211> 2802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1256)...(2063)
<223> similar to gi1903458 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5539

```
gcggccgcgg gcgggaggtg cttcccaagg accgtagatg cctctctaga gcatgagctc    60
aggcaagagt gcccgctaca accgcttctc cggggggccc agcaatcttc ccaccccaga   120
cgtcaccaca gggaccagaa tggaaacgac cttcggaccc gccttttcag ccgtcaccac   180
catcacaaaa gctgacggga ccagcaccta caagcagcac tgcaggacac cctcctcctc   240
cagcacccctt gcctactccc cgcgggacga ggaggacagc atgcccccca tcagcactcc   300
```

```
ccgccgctcc  gactccgcca  tctctgtccg  ctcccttgca  ctcagagtcc  agcatgtctc   360
tgcgctccac  attctcactg  cccgaggagg  aggaggagcc  ggagccactg  gtgtttgcgg   420
agcagccctc  ggtgaagctg  tgctgacagc  tctgctgcag  cgtcttcaaa  gaccccgtga   480
tcaccacgtg  tgggcacacg  ttctgtatga  gatgcgcctt  gaagtcatag  aagggcgccg   540
tggacaacgt  caaactgacc  gcggaggtga  acaacatcac  ggtggccgag  cagatcgggg   600
agctcttcat  ccactgccgg  catggctgcc  gggtagcggg  cagcgggaag  ccccccatct   660
ttgaggtgga  cccccgaggg  tgccccttca  ccatcaagct  cagcgcccgg  aaggaccacg   720
agggcagctg  tgactacagg  cctgtgcggt  gtcccaacaa  ccccagctgc  cccccgctgc   780
tcaggatgaa  cctggaggcc  cacctcaagg  agtgcgagca  catcaaatgc  ccccactcca   840
agtacgggtg  cacgttcatc  gggaaccagg  acacttacga  gacccacctg  gagacttgcc   900
gcttcgaggg  cctgaaggag  tttctgcagc  agacggatga  ccgcttccac  gagatgcacg   960
tggctctggc  ccagaaggac  caggagatcg  ccttcctgcg  ctccatgctg  ggaaagctct  1020
cggagaagat  cgaccagcta  gagaagagcc  tggagctcaa  gtttgacgtc  ctgggacgaa  1080
aaccagagca  agctcagcga  cggacctcat  ggagttccgg  cgggacgcat  ccatgttaaa  1140
tgacgagctg  tcccacatca  acgcgcggct  gaacatgggc  atcctaggct  cctacgaccc  1200
tcagcagatc  ttcaagtgca  aagggacctt  tgtgggccac  cagggccctg  tgtggtgtct  1260
ctgcgtctac  tccatgggtg  acctgctctt  cagtggctcc  tctgacaaga  ccatcaaggt  1320
gtgggacaca  tgtaccacct  acaagtgtca  gaagacactg  gagggccatg  atggcatcgt  1380
gctggctctc  tgcatccagg  ggtgcaaact  ctacagcggc  tctgcagact  gcaccatcat  1440
tgtgtgggac  atccagaacc  tgcagaaggt  gaacaccatc  cgggcccatg  acaacccggt  1500
gtgcacgctg  gtctcctcac  acaacgtgct  cttcagcggc  tccctgaagg  ccatcaaggt  1560
ctgggacatc  gtgggcactg  agctgaagtt  gaagaaggag  ctcacaggcc  tcaaccactg  1620
ggtgcgggcc  ctggtggctg  cccagagcta  cctgtacagc  ggctcctacc  agacaatcaa  1680
gatctgggac  atccgaaccc  ttgactgcat  ccacgtcctg  cagacgtctg  gtggcagcgt  1740
ctactccatt  gctgtgacaa  atcaccacat  tgtctgtggc  acctacgaga  acctcatcca  1800
cgtgtgggac  attgagtcca  aggagcaggt  gcggaccctc  acgggccacg  tgggcaccgt  1860
gtatgccctg  gcggtcatct  cgacgccaga  ccagaccaaa  gtcttcagtg  catcctacga  1920
ccggtccctc  agggtctgga  gtatggacaa  catgatctgc  acgcagaccc  tgctgcgtca  1980
ccagggcagt  gtcaccgcgc  tggctgtgtc  ccggggccga  ctcttctcag  gggctgtgga  2040
tagcactgtg  aaggtttgga  cttgctaaca  ggatccaggc  caggctgtgg  tttcccctga  2100
accagccctg  gacctttctg  agccaggctg  gccacatggg  gtggtctcgg  ggtttctgcc  2160
tgccccgtgg  gcataggtgg  acaggctctg  gcagccgggc  agtgccctcc  ccgtcccatg  2220
ctcggcgagc  ctccctctac  tcggcactgt  ccttgctgcc  cagcccctct  ctgggtgcca  2280
ggtacgacgc  ttgccccggc  ccaccctcca  tccccaccct  ccatccccac  cctagatgga  2340
gcgagggcct  ttttactcac  cttttctacc  gtttttagac  tgtatgtaga  tttggttacc  2400
tcctggttga  aataaatgct  ccacagactg  tggctgtgag  tggggacagc  tcctcgggac  2460
aaggggctg   tgtgtggcct  tgaggttggt  gtgcacaggc  actggctgct  gtgagtgggg  2520
gggcatgggg  cagtttcctt  tggtggaccc  caggacttcg  gcccactccg  gggcctcccc  2580
tccctgctag  gaggcaactc  gacacaccca  agctgctggc  ctccagtccc  atctccccca  2640
acacattgtg  ccccaaaaaa  gtgagccagg  cacctctgtt  tcctgctgtt  tattgacagc  2700
cgacggagac  gccttgccca  gacctcccct  gcccacctgc  tggagcccag  cctgtgccgc  2760
cctctgagga  gaggcctggg  gggacagctg  ggcacgtcca  ct                      2802
```

<210> 5540
<211> 1833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)...(1059)
<223> similar to gi5706505 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

4050

```
    <400> 5540
gcggccgccc cctcgcccgt cacgcacggc gtttacagac tctcctgcgg caggcggtgg    60
aactacaaag ggatcggtgc ctatatcaca ataccaaact tgataataat ctagattctg   120
tgtctctgct tatagaccat gtttgtagta ggaggcagtt cccatgttat acgcagcaga   180
tacttacgga gcattgtaat gaagtgtggt tctgtaaatt ctctaatgat ggcactaaac   240
tagcaacagg atcaaaagat acaacagtta tcatatggca agttgatccg gatacacacc   300
tgctaaaact gcttaaaaca ttagaaggac atgcttatgg cgtttcttat attgcatgga   360
gtccagatga caactatctt gttgcttgtg gcccagatga ctgctctgag ctttggcttt   420
ggaatgtaca aacaggagaa ctaaggacaa aaatgagcca gtctcatgaa gacagtttga   480
caagtgtggc ttggaatcca gatgggaagc gctttgtgac tggaggtcag cgtgggcagt   540
tctatcagtg tgacttagat ggtaatctcc ttgactcctg ggaaggggta agagtgcaat   600
gcctttggtg cttgagtgat ggaaagactg ttctggcatc agatacacac cagcgaattc   660
ggggctataa cttcgaggac cttacagata ggaacatagt acaagaagat catcctatta   720
tgtcttttac tatttcaaaa aatggccgat tagctttgtt aaatgtagca actcagggag   780
ttcatttatg ggacttgcaa gacagagttt tagtaagaaa gtatcaaggt gttacacaag   840
ggttttatac aattcattca tgttttggag gccataatga agacttcatc gctagtggca   900
gtgaagatca caaggtttac atctggcaca aacgtagtga actgccaatt gcggagctga   960
cagggcacac acgtacagta aactgtgtga gctggaaccc acagattcca tccatgatgg  1020
ccagcgcctc agatgatggc actgttagaa tatggggacc agcacctttt atagaccacc  1080
agaatattga agaggaatgc agtagcatgg atagttgatg gtgaatttgg agcagacgac  1140
ttctgtttaa cttaaaatta gtcgtatttt aatggcttgg gatttggtgc aaacaaacat  1200
gattgatagc tggacagaca tgctcgtcat gaaaaaagaa ccatttctga agcccgattg  1260
gggccaaaca tttacacctt gcttcatagt aaccagttga gatgaagcac gtcgttagaa  1320
cgttgttgga caccatgttg aattattccc ccatcggttg tgaagaactg tgctacattc  1380
aggcttaccc attgaactca gtatatatat ttttttcctt cctgtctttt gtctggcagg  1440
ataccattct tgttgctctt ctgtgtaatg aagtttaaat gcttgtttgg aaaactttat  1500
ttaacagttt agaaggcttg atagaaagag tgcattagtc tgaagagtat acattggata  1560
ggaaagaatt tccttctttt gtttctccaa atctttccgc cttatttagc ttgagatctt  1620
tgcagcttgg ttcatggatt ctagccttgc ccgttgcgca gtatatactg atccagatga  1680
taaaccagtg aactatgtca aaagcactct caaatattac attttggaca aaaagttttg  1740
tacttttcac atagcttgtt gccccgtaaa aagggggtaac agcacaattt tttaaaaata  1800
aattaagaag tatttatagg attaaaaaaa aaa                                1833
```

```
    <210> 5541
    <211> 1251
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1194)...(366)
    <223> similar to gi1177358 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters
```

```
    <400> 5541
tttttaagag gttcatgaca caaatatatt tatattaggt gaatcaatca cccaggatac    60
```

```
ccaagatctg atactttcac aaactgcttg gaggcaactt aagtatggaa gaagcttcag      120
aaccagccca gctttctgct ctctggctcc aggctgcatc ctttttaact atttaatgtg      180
gcgtggaaaa tgtcagcata atgaggcttt ctcatctcaa tagagaacct aggaaggaca      240
aggccgaatt aaaaaaaaaa tcttcattaa agaatttaat agggagttga ttatgttgta      300
gaatcatatc gtcctattct gtgacacatt agaaacataa actttagggc tttttcatct      360
ccacagcata gaggtctgat cgcttctgtc taaaaacggg gatttgctgg cgtatttcag      420
ccagcttctt caggtctatg tctgaataca cgattgcttc ttctgtgcca gctttggcta      480
gaacctcccc ccaagggttc accacggtgc tgtgtcccca ggcaacatag gaggctttgt      540
catcccgggc aggagaggct gtggccacat acacctgatt atcaacagcc cggcttcgct      600
gaagtaactc ccaatgggct ggtccagtgg tcagattaaa agctcctgga tataccaaca      660
gctggcagcc tctctgtgcg tagatttgtg caagctctgc aaaccgcatg tcgtagcaga      720
tgcccagacc cactctgcag taaggagtat caaatgtgga gaaactatca cccggactca      780
atgttttaga ttcttgaaat gtaatttttc caggaacatc aatgtcaaac agatggatct      840
ttctatactt tgctagtaaa gttccatcag gcccaaacac agcacaggtg ttatataatt      900
tcccagcatc ctcttcaggg atagagcctc caatgagata tatgctgcat tcctttgcta      960
cttcagaaag cttctgtgtg gattcaccag gaattttctc tgcatattca ggaaaatatt     1020
tcgctccata tggagaatta aagcattccg gcaaagaaac tattttggct ccttgcgttg     1080
ctgcctcccg gatgaagcta caagcgcgag tgacgttatc tgatttgatg gaagaaatct     1140
gaagctggat gagggccaag cggaaagagg tcatgactct gcagacaagc accacctgcg     1200
gcgcggaatg agcgctggag atccggcgga ccgcggcgtc gctacacgaa a             1251
```


```
<210> 5542
<211> 1553
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1324)...(641)
<223> similar to gi3878106 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 5542
tttttttttt ttaagtttga agccttgccc aagctttaat gtcatgctaa ccagttacct       60
tgttagagct gggaagccac cttttgctca aaatgcagac ttctgccttt gaaaacacac      120
cacacctgat tttaagtgct taaaggacag aaaatgtcgt tgctttaaat tgttgctttg      180
ttcagagaca tctggatttg ctgtatccat acaagcaaaa gcttttccaa ttccagaatc      240
aacccacact aatttgttat tgcctcgtac tgtattggcc cagctgtaat caactcagca      300
ggcttttggt tgtaaattca agtggaaatt gagttggtct tatttgtgcc cgttgatatc      360
tgagggctgt gaggaagatg gccagtaggt caaaggaat agtgttgaaa agctgaccag      420
tactgggcag gtggccggct gtccctcagg caccacaacg ccgagccacg gtaaggggca      480
tgagccacat ttgcagaata tagccagagt ccttccagaa cctcctgatt cgcgccagga      540
ggcatcccag ggcacacaag tgtcaagggc ctactcaggt gcttggcaga gctctctgtg      600
tgttattaac agaagaggct acggcttaga gtggaaagga gcatgtgatg gctagcggtg      660
ggcagcctgt gtactctgcc aagtttgggt ggtccaggtc cccacgattt ctgtgtggag      720
ggttgtccgg catctggcca ctaggggggc cggtggttct cacacacacg cagcgggggct      780
ccttagcacc tggcttatac agcttcctgg ggacgccaat ccagtctctg ctcacacctc      840
cactcttctg ggagcaccag agccggctgc ccctggctga gctccactcc gcgttgcacg      900
gcgggaatgt ctgcttctct tgcagctgta gtttgttggc ctccaagcct ctggtgatcg      960
cagcttctac ctgggtcagt gccggggtgg gcagcccatc ctctccgtag aaccgtcctg     1020
```
```
                               4052
```

```
tcaccctccc aacacacaca taattcttct catagaatga aagccaattg tgaagtgtca   1080
gcatctcagc ggctgacagg tcggatacgt catccacgag gcctgcttca gaacagtccc   1140
cggtcacgaa agctctggat gcgtctcggc ctgcgaagcc gctatagtgg gacccaggct   1200
cgtagtgcct ccggccggag gacacatcgt agacacggcc gagcaacgcc aagtacaggc   1260
ccgggtcccc tgggccgccg cggtagcgag acagctcctc cggtatgaaa aggcgaaagc   1320
cagcgcgggg accccaccag cccataagcc gtgctgccat taccgctgct gcggctacag   1380
ccaggcccaa caaaagccca cggcctccgc acctcaacat ctatataggc ccacccgctc   1440
cgcacttccg aggttgccgc ctctatctac agctaagatg gccgagacgc cgagcgtgac   1500
gtcatcggcg cgcgcgctct cgctctctct ctcgcgcgct agtgctcgcg ctc          1553
```

```
<210> 5543
<211> 1516
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1094)
<223> similar to gi5911963 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 5543
gcaaagcgca aaaagataaa tcagaattca agtaaagaga agattaataa tggacaagaa     60
gtcaaaatcg atcagagaaa tgttaaaaaa gagttcacta gccatgcttt agattctcat    120
atcttagatt attatgaaaa tccagccatc aaagaggatg tatcaacatt aataggtgat    180
gatttggcat cttgcaaaga tgagactgat gaaagctcaa aagaagaaac tgagcctcaa    240
gtgctgaagt ttagagtcac atgcaacagg gcaggagaga aacattgctt tacctcaaat    300
gaggctgcaa gagattttgg gggtgctgtt caagattatt ttaagtggaa ggccgacatg    360
accaactttg atgtggaggt tcttttgaac atccatgata atgaagtcat tgtgggcatt    420
gcattgactg aagagagtct ccaccgaaga aatataacac attttggacc tacaactctt    480
agatcaactc ttgcctatgg gatgctcagg ctctgtgatc ctctacctta tgatataata    540
gtcgatccaa tgtgtggaac tggggcaata ccaatagagg gggccactga atggtctgac    600
tgcttccata ttgctggtga taataatcca ctggctgtga atagagcagc aaataacatt    660
gcatctttat tgaccaagag ccaaattaaa gaaggcaaac cctcctgggg cttgcccata    720
gatgctgttc agtgggatat ctgcaatctg ccattgagaa ctggctctgt ggatattatt    780
gtaacagatt tgccatttgg aaaaaggatg ggatccaaga agagaaactg gaacctttat    840
ccagcttgcc tacgggagat gagccgtgtc tgcacaccta ccacaggccg agctgtacta    900
cttactcaag acacaaaatg ctttaccaag gcgttatctg gaatgcgaca cgtatggcga    960
aaggtggata cagtctgggt gaacgttggt ggtcttcgtg ctgcagttta cgttctgata   1020
cgtacacctc aagcttttgt tcatccttca gaacaagacg gagaagagg aactctttgg    1080
caatgcaaag aatgaagatg actaatagta cttgtacttc ccaccactgg aaatgttagc   1140
ataaaagaac ttggagagga aaaaagtatt aacaaaactg cagtctgcac tctttaaacc   1200
tgtttaaggc tcttcatcct ggttagcaaa aggtgtgaat gtaatgtgat ggaatttaaa   1260
agttttatga gaccaggcac agtggctcac gactgtaatt ccagcagttt aggaagccga   1320
agtgtgcaga tcacctgagg tccggagacc aggcctggcc aacatggtga aaccctgtct   1380
ctactagaaa tacaaaaatt agccaggtgt ggtggcgggc gcctgtaatc ccaactactc   1440
aggaggctga ggctagagaa tcacttgaac ccagcaggcc ggaggttgcc ggtgaagtcg   1500
agatcacccc attgca                                                    1516
```

<210> 5544
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (394)...(280)
<223> similar to gi4589248 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5544
ccgtggccct gcagagcact ccctctcttt ttctagaggc aggaaacagg tccagagagg   60
ttcggtggct gtccagtagt tttagtagga agtaaggaag taggaaggta gaagctgaat   120
ctaggtagga ctgtgggctc tcgagtgcgt caacttaaca ccattgccca tttcagcacc   180
aactcccctg tccctccaga tggtgtggtc ctcgagggca gactaatccc atcaggcctt   240
ttcaggcctg gcctccctgg cccaccctgc ttagcacctg cggatctcag gggccagctg   300
ctccatgtcc tggtggaaga cgtagggagg gttgctgaca atcaggtcca tggggcccca   360
gggcaggtgt gtccagctcc tttctgtcgt caaagaagag gacacacagt agggactaac   420
ccattgggag gtaaaggatg atagctccac ctgccaccat gtgcctctca ccatgccaca   480
ccttgggcct gc   492

<210> 5545
<211> 2081
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (37)...(567)
<223> similar to gi3298607 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5545
cgaccatgct taccgattca ctggccgtcg tgactggtga accatcaaaa gagagtgata   60
gaatctggcc cagaccattt gaatgacaat gaatatacca agtttattcc tcctaattat   120
cacacacctc cttatctcac tggtgagcca gaggtaactt accaccgatt aaggccacag   180
gataagtttc tggtgttggc tactgatggg ttgtgggaga ctatgcatag gcaggatgtg   240
gttaggattg tgggtgagta cctaactggc atgcatcacc aacagccaat agctgttggt   300
ggctacaagg tgactctggg acagatgcat ggccttttaa cagaaaggag aaccaaaatg   360
tcctcggtat ttgaggatca gaacgcagca acccatctca ttcgccacgc tgtgggcaac   420
aacgagtttg ggactgttga tcatgagcgc ctctctaaaa tgcttagtct tcctgaagag   480
cttgctcgaa tgtacagaga tgacattaca atcattgtag ttcagttcaa ttctcatgtt   540
gtaggggcgt atcaaaacca agaatagtga gtggctcttt cactggcaat tctcaaatga   600

```
tacacattta aagggcagat ttttttaaaa agatactact ataataaaca tttccagttg        660
gtcattctaa gcatttaccc ttttgatact ctagctagtc aggtactcca aattgacttt        720
gcagcagggt ggcagggtca ggagagtctg gtcctgccta gctcagattt catggcacct        780
gccacttgaa gcaagtcact tctttatcac aggtgtcttg aaacattagc ttcttttacc        840
aacctgagaa aattaggatg acctggcaaa taagatcttg aataggccaa aagcaagtat        900
cttgctgtgt gtagtctctt ggttaaagtg aagaaacagt actgttcaca cctttcttca        960
ctgagattcc agtgtacatg agaacatata tttattgcat gattttctag atacacagtc       1020
tatgcattat tcatatacat ttattttagc ctaaagtggt tttcaaatcc agttcttcaa       1080
gccataaatg accaagatcc aagcaatctg aatttgtttt tgtgattatt tgactggaat       1140
gcttcttaag tggaataact atactccgtt atccacccga tttcctaatg taattgaaag       1200
attttctatt ttgccacaca cttggagaca ataagggttt ttagttttat ctactcttct       1260
attgaagtta aagaaaaaaa aaaagatttt tttatttgta ttaatgaaaa gctttagttt       1320
aaaataagga gatccagaat aaaaagaaga gactgatctc ttcaattatt gtcatctgta       1380
gccaccagca catcactctt atgtaatccc caaaggcttg gcatgccgta agtgtgtggt       1440
gggtagactg ctgccgggga atcgtacttc ttatttagta atgataagac ttttcattat       1500
ttttggaatt ttaaagatga cataaataag tttaaatatc aatttgggga gtaaggttta       1560
atattgccat cgggtattga gacaggagga agtttctgtt tttctccatt tagacatagg       1620
tcaattaaaa tatttgggtt taaaatgact aaatgcttta aacatattgt agcttaagat       1680
atatgtgtta agatatatac atgagaaact ttaaaaggta actactgtgc atgcctgatg       1740
cttaatagaa tacttagtgg catcaaatgt ttgcagcagt ctccataatt atattcagtc       1800
ccttctaata ctgtatcaat gtaaatgaaa taaatatatt caaattggct ttttgatatg       1860
catcaagtgg cattttgttc ctgtgtttaa tagtgatctg tatacagctg tgcacatatt       1920
gtcatcactt attctagcat cactgttaag gctgtgatta tgtttgatat tcacctggat       1980
tttaatacaa gccaatatca gcttcccatt gtgtaataac ttgggtgttt aggagtcttt       2040
tcacattttt tggggatatg aactagatgt tcaagaactc c                          2081
```

<210> 5546
<211> 3018
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3019)...(1219)
<223> similar to gi5817280 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5546
```
aagctcacag caaagagaag ggtcctgaaa gcaagttgcc agttgccccc ttcacagttg         60
aatacaaggg tgtaaggcac gaatttctgg tggctccacc ccatccttcc agtgtgcctg        120
tgggccctta gtctgagcca ctccatatta atttatatcc cttgctgtgc atatgttacg        180
gaatggaatt ttccacgtgg acatgtttag gcaatccccc ctttgcaagt tcccttatct        240
gcacaaagca tctcatgctg tggagccagt ggcaggttct ccgggaccct tcccttactg        300
tctgcctaaa gcaaactggc taaattcttt cacaagtttt tctttttctt ttttttcttt        360
ttctttcttt tttttttttcc aatttgcatt agaaagcttt tattgagacc aggttaacca        420
gtggcctgaa aatattacag gctgaaggaa ggctgaggaa accagtatga aggcagctca        480
aatgatgaac taaatatatt ccaaaggtac tatttatact taaggcagtt ttaaaagtga        540
ggtcttaacc aaaaagcctt tacatggcat tcaaaacaaa aacaaaaaca aaaaaaacac        600
gggggggggg ggggcactta aatctcttgg attgactaaa agagctaaat tatgtaccca        660
aaatctgtac agcagggggcc tgttttcagc aggaaagcct atgtacaagt aagaacctct        720
```

```
tactcttgta acattgtcct gttttgtttt gtcttataag aatatataac tcctatcctc    780
acagagttag tccataaggc ctcagtgacc tcacagaaat atggagttaa cctctactac    840
agaactattt acactgcact gtaaatacac atatgtgtgt ccaccctcac agctaagctg    900
tcaatgcctt gagtgaaggg gttacagctc attcgttttg catctacagt gacaatgaat    960
aggcactcaa tacatacttt tttttgcatg aatgataaat gaaatgattt tacattacca   1020
ccactattta cattaacatt cctaccatta gccgtctcca aaataaaaac acaaaattgc   1080
tgccacatgt tcagcagttt tcacaataca gtgtgtctgg acttttaat gtaaacaaac   1140
atgcttgatt taccaatttt cagagcaagg acacaaactt agcattcttc taggaatgga   1200
aaacttgcca ggaagttact tcattctttt ttttttttc aaaagtgcat ctcgtagtgc   1260
caactgtttt tctcggaagg aacgcttatt ttttgaccgg acattctggc tataccgcat   1320
catcataaag ttcttctgtt ttttcttctc tttatttgtc gaactggaaa atggatttgt   1380
tttggttttc ttcctcacaa attcttttcg gtctgtcttt ccagccattg cagttgctag   1440
tcttgtctct ttgtcagact ttggcttttt atgaaggcgt tcaatgtccc gaagagaaag   1500
taattcaccc ctgggctctt catcactgtc tatttcaatg tatttcctct tctgggattt   1560
cccgggggca gcatcaagtt cttttctcat ttgggccatg cggattttct ggaagtcttc   1620
ctgagttaaa actcggctag tgctgatggc tgcagctttg gccttccgct cctccatggg   1680
catgctgttc agcttcttgg agatttcttg ctgttcttca tcggaagagt gttgcacatc   1740
aatccattca ccatcagcat cctcctcctc actgagactg gtactttccc atccatcttc   1800
atcattttca gcattctctt ctttctcaac ttccagaact tctgctcctg gaatgtaatc   1860
tttagcatct aattctccat attcttgtac tcttgcttct atggaggcct ctgtaggctt   1920
accccggaat ttcttctgca gcatctgagg attcagtgtt cggaagaggt gaatcaaagt   1980
tctagcagac atcattacat tcttatcctt gtgtgtttta tactgagcca ggtcttggag   2040
aagttcttca gtcatggcca gaggacatcg agctgttatc tcctttatag cattgattcc   2100
tactgtcatg acttctccag agttcttgtc ggtaacaaaa ttgtttgcca cagtcataag   2160
caatgattga ataatctctg ggggtactag gtgatgagat gcttgtgcag caaacagaag   2220
gatcttggtt acttctcttt ggtggggctg cagaaacctt tgcaaaaagg gatagaaatt   2280
gaagaggaaa agctcatgaa ttcccaccaa tctggagata aggttcatga gcatcatctt   2340
cacttcaaac ctctccttac agcactcaag ctgctttagt agtttttccg caaaatcttg   2400
gggatcatga atcaagtgaa tggctgaaaa gttaaacacc tctggttttt tcttcttcct   2460
gtgtttcttg agcactttca ttgccttttc caactttttc ttgtttttgg aacttttctt   2520
ccctgtagca tattgtacta gcaggtctct tgctgttggt ccatcatcct cagattcgga   2580
gtcactgtcc tgtttttcat cttcatcttt cccaagaaag aatgtcaaag cggcaactaa   2640
tatcttggtg accttagaga aacatgcagt tgtgataaca ttgacagttt ttgcatcatt   2700
ccagatgttc cttctgtaga gttcaatcat tacatctaaa gacatcttgg ctgcggttgc   2760
attgctatct cttaacatgg tgtacatgaa attttgcaat actacattca ctttattgct   2820
cttgtgtttt gcatttatat tcttgatatc agtcacaata tgtgtgtata aagtctttcg   2880
cagaagttta tcatggcaac gaaaaagttc aaagaagagt tctagcaggc ttgatggatt   2940
gatgagattc ttatttctca gcaagatcaa agctttgcaa aatgtcattc gcagatctgg   3000
atccgatacg gtatgatt                                                 3018
```

<210> 5547
<211> 1428
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1427)...(998)
<223> similar to gi4186185 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5547

```
atttctgcta cagtcatgca ttctttaaca tcttgtttat tagcaaaaat cagcttttca      60
ccaaggaaga aatacctttta ttaggagtct aggcatgtca gaaaaaccca gttcagtcac    120
agaaaaggag gcaaatattg gtacagagca agaatccaag tgtgaaaata aaacctccat     180
ctaaatatcc taacagaaat gctgctgaat ttagcccagg tgaaacttct gaaagctcct     240
ggtgaaatga gatttttgca taaagagaga gctctccagc actgctgcat ctgagcttct     300
tataaagtga cgggtcttgg ccagcagtag aggaagagat aaaggggatg tctcatcacc     360
caagcaaggt cgtctgtgtt caagtgagag aagaacctta gggtttggga cagagtaaac     420
tggggcagca gagggaaaat ggctgaggaa acacaacgtc tagggccgtg tgtggcataa     480
tgtggagggg tctgtgcagt ctggtgtgag tgcatctcca ggaggtcttg ggaaacactg     540
gcattcttc ctgaggccat tttggttctg ttctgacttc attcagagca gaactgccaa      600
tgtccagcgc caagtcctgg atcataatta gctgagtgga atgcagtagc caccctatga     660
ctcccatacc tcttcctttc tggagcagtc acttttctca gaccaagtga gatcttaccc     720
agtaggggcc caatctagaa atcactccca ccttcatatg agcaccaggt ggagagaatc     780
attctcatga ctcaaagctt tagatctcga tcctcagatg atgttccttg gacagaagat     840
cagtctgaag ttatctgtgt caagagtagc tggcactgcc catgggtaat gggcccaagc     900
gatgtgatgc cgcagctctc ccaaagaaga gctctctctg ctttcacagg caggagagga     960
ggaaatgagg caggcttcaa ggtagtcaat gccacttaat tcttccatcg aatttgcgag    1020
ctgctgagaa gagcatcaat cttctcctcc tctgctgatc ctttatctac cttactcctg    1080
tatgctagca actgttgacg atccttcagg tcccggtagg tatcaatgac gacatcatgg    1140
cacttgaact tagtggctaa gttcaacttc gtgtccacat cttccaccag attgacatac    1200
tcctgtaata tctgcacagg ggcattgttc ttgtgcaaaa tttcgacaac ccgatggaag    1260
ccaatgggtg ctctcttctt ggtatagccc agccagttct ttgtggtgaa tagggcatct    1320
acatcattcc aggctcgaag cttggcacga gcagccaggg ctgtcagcac atactgttta    1380
tctgggatct taaatgtctt cttcaggttg acgggactgc tgaatgcc                 1428
```

<210> 5548
<211> 397
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)...(285)
<223> similar to gi1408209 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5548

```
atgggcacat caaacattac aacgaatgtt gaaaagacaa aaaggggggta taggaggcca     60
actaccacct caatcaaaac tacatttagc cttatttact ttaaaatttt tgactcctgg    120
tacggatggt aagactccag cagaaagaca ttggcaagtg ttagaggaaa agaggaaagt    180
ttatctgaaa gtgttacgga aatccccaga agaaggacaa tggaaaggcc cggtggattt    240
actgacatgg ggaagagggt atgcttgtgt gtttacagga gattgacaag ccatgtgggt    300
gccctcaagg tgcttgcaac cctggaatgg gagactggag aaacatgggg tggccaacca    360
tgggcccagt ccctccggta tgagccatga gtcagct                             397
```

<210> 5549
<211> 1255
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (9)...(331)
<223> similar to gi4240255 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5549

```
ggcaggcgac catccgggtg aagtgtctga ccgctcagca gcagtcaggc gagcgtctct      60
cagctttcgt gttgcggctg gaagtgctgc tgcagaaggc catggagaag gaggccctgg     120
ccagagcatc cgccgaccgc gtgcgcctga ggcagatgct caccagggcc caccttactg     180
agcctctgga tgaagcactg aggaagctga gaatggccgg gaggtctcca agtttcttgg     240
agatgctggg gctcgttcgg gagtctgagg catgggaggc cagtctagcc aggagcgtga     300
gagcccagac acaggaaggg gccggtgccc gggctggtgc ccaggctgtt gccagagcca     360
gcactaaagt agaggcggtc ccaggaggtc ctggtcggga gccagagggc ctcctccagg     420
caggaggcca ggaggctgag gagctcctcc aggaggggct caagcccgtc ctggaggaat     480
gtgataacta ggttggggct ggggaggcag cccagcgcga gtcctccccg ggcaaatagg     540
ctccgagggc cccgggggcct cctctcctcc tctcaggcag cagggccctg gagacaggcg     600
gaggcggggc cagggccggt ccctcacccc acatcgggat cggggccccc cacttccccc     660
caaggggccc tgcccaccac caccttcccg gtgacccaga tgaccacatt taataccaaa     720
tggggtgggg ggaggcgccc ctccagtgcc aggggcacgt gctgtgagct tcctgggagc     780
ccaggttgtg ctcactgctc tcccgtatcg tgagcaccac ctctgctttc cctgcgtaga     840
tctaggccag gggctgcttg tttttgtgga gccgtgtgtg ttcttctctg agcagctcct     900
ccccagagga ccccagcgca gtcccgggag atggcggaaa gaaggcacca gggcacagtg     960
gacactcatc ccgtgacagc gatggtgacc atgactgtgg gagaaagaac aggacccggg    1020
atggagtggg gctgtctgag tttccccagt gaactttgtg ctttggcgtt ccaccccgt     1080
tgttacttgt tactgagttt cctagacctg gggtgggtgt tcccccagga ggagggggt     1140
cccgacctgt gtcctgtggt ggccatttgc agcttctgtg ttgtgattcc cttctcttca    1200
acggtttcaa gtacatatct ctcaataaat ttcattcagt gttccaaaaa aaaaa         1255
```


<210> 5550
<211> 2009
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (46)...(1614)
<223> similar to gi1293680 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5550

```
cgggatcaat ttgatttgac agtcggtata actgatcctg agaagatggc gtcgggtggt      60
ggtggctgta gcgcttcgga gagactgcct ccgcccttcc ccggcctgga gccggagtcc     120
gagggggcgg ccggggggatc agaacccgag gctggggaca gcgacaccga gggggaggac     180
attttcaccg gcgccgcggt ggtcagtaaa catcagtctc caaagataac tacatccctt     240
cttcccatca acaatggctc caaagaaaat gggatccatg aagaacaaga ccaagagcca     300
caggatctct ttgcagatgc cacagtggag ctatccttgg acagcacaca aaataatcag     360
aagaaggtgc tagccaaaac actcatttct cttcctcctc aggaagccac aaattcttcg     420
aagccccagc caacctatga ggagctagag gaagaagaac aggaggatca atttgatttg     480
acagtcggta taactgatcc tgagaagata ggggatggta tgaatgcata tgtagcctac     540
aaagttacaa cacagacaag cttaccattg ttcagaagca aacagtttgc agtaaaaaga     600
agatttagtg actttctggg tctttatgag aagctttccg agaagcactc tcagaatggc     660
ttcattgtcc ctccgccccc ggagaagagc ctcatagga tgacaaaagt gaaagttggg     720
aaggaagatt cttcttctgc agaatttctt gaaaaacgga gggccgcttt agaaaggtac     780
cttcagagga ttgtaaatca tcctaccatg ttacaggacc ctgacgtcag agagttcttg     840
gaaaaagaag agctgccacg tgccgtgggt acccagacat tgagtggtgc tggtctcctc     900
aagatgttca caaagccac agatgccgtc agcaaaatga ccatcaagat gaatgaatca     960
gacatttggt ttgaggagaa gctccaggag gtagagtgtg aggagcagcg cttacggaaa    1020
ctgcatgctg ttgtagaaac tctagtcaac cataggaaag agctagcgct gaacacagcc    1080
cagtttgcaa agagtctagc catgcttggg agctctgagg acaacacggc attgtcacgg    1140
gcactctccc agctggctga ggtggaagaa aaaattgagc agctccacca ggaacaggcc    1200
aacaatgact tcttcctcct tgctgagctc ctgagtgact acattcgcct cctggccata    1260
gtccgcgctg ccttcgacca gcgcatgaag acatggcagc gctggcagga tgcccaagcc    1320
acactgcaga agaagcggga ggccgaggct cggctgctgt gggccaacaa gcctgataag    1380
ctgcagcagg ccaaggacga gatcctcgag tgggagtctc gggtgactca atatgaaagg    1440
gacttcgaga ggatttcaac agtggtccga aaagaagtga tacggtttga gaaagagaaa    1500
tccaaggact tcaagaacca cgtgatcaag taccttgaga cactcctta ctcacagcag    1560
cagctggcaa agtactggga agccttcctt cctgaggcaa aggccatctc ctaatggacc    1620
aaggacccca gagcccacct gtgtgacgct gccttttat acactgtcct cctccacctt    1680
gatggacccc tagtgatgca tcctgcctag gctggactta accccttcct ccctgtcccc    1740
acgaccaact gtccccagtt actctaaccg ttatttcatt tagcttccat atatattttc    1800
ttacctaaga gaatagtttc ctgctttaag caaaagacct acaataggtg gtggaattat    1860
gggatggggt ggagtattga tataaatata taaatacaaa tgtatatttt tcaggatgtg    1920
gtttaggaac tgggaataac gttttctgtt actcctgatg gtgccatgaa aaggttatgt    1980
aataaaatat tttaaaatca aaaaaaaaa                                      2009
```

```
        <400> 5551
ctggaggagg aattagcttg aagcatggcg atgaaatcta cattgctcct tcaggagtgc      60
aaaaggaacg aattcagcct gaagacatgt ttgtttgtga tataaatgaa aaggacataa     120
gtggaccttc gccatcgaag aagctaaaaa aaagccagtg tactcctctt ttcatgaatg     180
```

```
cttacacaat gagaggagca ggtgcagtga ttcataccca ctctaaagct gctgtgatgg    240
ccacccttct ctttccagga cgggagttta aaattacaca tcaagagatg ataaaaggaa    300
taaagaaatg tacttccgga gggtattata gatatgatga tatgttagtg gtacccatta    360
ttgagaatac acctgaggag aaagacctca aagatagaat ggctcatgca atgaatgaat    420
acccagactc ctgtgcagta ctggtcagac gtcatggagt atatgtgtgg ggggaaacat    480
gggagaaggc caaaaccatg tgtgagtgtt atgactattt atttgatatt gccgtatcaa    540
tgaagaaagt aggacttgat ccttcacagc tcccagttgg agaaaatgga attgtctaag    600
ccaaaagaaa gtctaattat atacagagat aaagctaaac gtaattatta tttaaatgaa    660
agctattttt ttaaataaat tgaaattttt catgatgcta ctaatttgcc actaaatact    720
gcaaatggtc accctgaatc tcttctgaca ttggatgtta tttgcttata ttcttataat    780
tttaaatgag ggcacagtga aatgaaaatt tt                                   812
```

<400> 5552
```
tttttttttt ttcaccgggc taggtctgct ttttattggc cacgcatcca gccgccagcc     60
tcagggcaca cacctggcag ggggcaggct cgggtaggct gccctcgctg ggtggggcagt    120
gagggggcag cggctgctgg gtgtcaccct gcagcccctc aggtggacct gtattgtccc    180
caggcctgc ccacgctggg cagctggcac tgggaggggt tttctgttga tgtgatggcc    240
aagtttcagc tgcagggcag aggcctggca gtggcagcaa aggcagaccg cccccaactc    300
caacttcagg ggctggacat gctggaacgg gggccagacc ccatgggagg ggaccctggc    360
ctgccatggc actgcctgcc agcttacccc tgcccagggc ccccaactca gccacctcca    420
agcagtaaag acttgcaaag cattgcattt tgattaaacc ttgctgggct gaagggcagg    480
cagagctgtg gtggacactg gcaggacgca gcaccccccg actggcccctt ggcaggctgc    540
accgggcgca tgcgggtgtg ggccagggtt gcctttagga agcaggtggg aggctggcac    600
gtgcaggcgg tccaggaggg caccaggcct ggcagggcac tggtgcctgt cgggttccca    660
gccacaacac cccaagaagg ctccaggagg gccccggctg ggtaaggcac ggagttttgg    720
tttccggggc ccagtcccag cctggccccc agaagagcct ctcttggcag aatggcagca    780
tgtcctgtgg cctgggctct ctcacttggc cttgggcctg ggcctgaggc cttactggat    840
cacacacagt ttctttgttt tattatcatc agaatcaggg ggaacctctt cctggctcct    900
ggagggacgc ttcttccttc gcttcccggt cccctttgag gcccggcccc gggccctggg    960
gagtgtgccc gacccctgagg agtcggtcac cgcatcctcg gagaaggact tgtccaggga   1020
tgtgtccagt gcggactctg gggccgtgtc ctcctcgtcc tcgtcctcat ccccacctgg   1080
gcctgctgca gggggtctgg caccacggct gtggacagcg tcctccagcc cctcacttgt   1140
gctgtcggcc tcggcctgga ggacgcccag caaggacgtg ggatccttgg catcttgcct   1200
tgaacttccg gctgcagggg gctggttgct ggagaacttg aggggcttca gggcctgagc   1260
atctcccaga gtcaccggcc aggccccctc caagggctgg gggcactggg gatcctcagt   1320
ggttaggaca tcgctggcat ccacatacca ggaagaacgc ctctccaggg gccggggacc   1380
accctcctcc aactgctcca gggtgggctg agggccgggg gtcacggcgt ctacaaggtc   1440
ccagccccgg gactcgctgg ctgttgtagc atcaaggccg ggctcagagg cgggacagcg   1500
cgtgctgccc acggggtctc ctgcagggtt actggtggcc acaggctctg tggctcttgg   1560
```

```
gggatccatg gaggctgcct tgctgccccc gtcggtgtcc ccgcggcccc gggctgtctt    1620
ccgcagctgg aagcccttcc tgatgtcagc cagcagggca tcgatgacac acacctcctc    1680
ctgcttcccg ggccccttcc tgacaggctt cccgtcctct ccccgaggcc gccgcgcctc    1740
ctcctccgcc agctgctgct tcctcctctc tgccttcgcc gcctgctcct tccggtcctt    1800
gttctccttc agggcgcgga ggaaaaggtc ccggaaagcc ttcatggtgc tgaacgtgtc    1860
ctccagggac agctgctggg cgtcctcaca caggtagtcg gccagctccc gttgcttctg    1920
ctcgatggcc tcaaacagct cgtccagtgc ccggaaggcc gagatgctgg cctggaggcg    1980
ctcggtgtac tgctcctgga cctcggccac ggaggcagac accttccgct cggtctccag    2040
aagcttcttc aggttggagc tggcctctga gcggatgatc tccaggttga tccctgctgc    2100
ttgcgagggc tgttccaggt cccggggcag ctgcaggagg tcggggtggc tcttttccgc    2160
ttcctccagc acgtggtgca gcagcgtcac gcggttctgc tgggacttgg tctccgtgag    2220
cttcagcaat gtgctgatct tgaagccgtc ggcgtcaccg tgtggctgc cgtagttgag     2280
gaagttccca attctcagga tcagctggca aagatgggc agctggcggc tggtgagcag     2340
cctttcgcag gcagccagca ccagctgggc cttgggccgc accatgtcca gcacggcggc    2400
cgc                                                                  2403
```

<210> 5553
<211> 949
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (946)...(898)
<223> similar to gi3157938 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5553
```
gatcacagcc cctacccacg tgcctctcca gtacatcggc cccaaccagc cccggaagcc     60
tgggctgcct ggccagcctg ctgtaagcta agaacccacc cacagcagcc ctcgggggtg    120
tcactgcttc ctggaggttc aggagacccc ggacacctgg gacctgtgtt cctgagcccg    180
tcctgacatc tgtgttcttc ctgtcagctc cacgcccggg cccctggacc acggggtcca    240
cctctcctct gtccggacca tttattgggg actttttgct cagcactgta ggaggaaaga    300
aggaaggagg gatggaagcc tcttcctctg cttctcctgt ccctagaacc gtaaagccca    360
gacgtcctgc ttcccactgg gaccctcaat gataacaggg tcagtgactg actctgaggc    420
agcaaggaca gaggagaggt ggaccccgtg gtccaggggc ccgggcgtgg agctgacagg    480
aagaacacag atgtcaggac gggctcagga acacaggtcc caggtgtccg gggtctcctg    540
aactccagga agcagtgaca cccccgaggg ctgctgtggg tgggttctta gcttacagca    600
ggctggccag gcagcccagg cttccggggc tggttggggc cgatgtactg gagaggcacg    660
tgggtagggg ctgtgatccg atcagtgccg aggtaggact ggagggcagg gggcacgagc    720
actgagccgt ccttctgctg gttactctcc aggagcgcga tgagaaggcg ggggacagca    780
caggcggtgg cgttcaccgt gtgggcaaac tgcagctccc agcctcggt ctggaacatg      840
atgtggaggc ggcggctctg gaagtctgtg cagttggaag cactggtgac ctctccaaag    900
cggcctcggc ctggcatcca ggcctcaatg tcaaacttgc gctcgtgcc                949
```


<210> 5554
```

<211> 720
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(175)
<223> similar to gi5730484 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5554
```
gctgataata gaaagatgtc tcggaaggag aaagatgaaa gaatcttgtg gaagaagaat    60
gaagttgctg attatgaagc tacaacattt tccatcttct ataacaacac tctgttcctg   120
gtcgtggtca ttggtgcttc cttcttcata ttgaagaact tcaaccccac agtgtatcct   180
tttcaaggtt gattatcttt tttagaagtc aagaaacagt agttcatttt ggttttgact   240
tgtctggata ttttagtgga aagaaaaact gctctgggag tcagtccatt aaatagtgct   300
gactttagat aactttctgg acatttaaaa taacagctat tggtttaaga ttctttttaag   360
tttatgaatt atgactgtat gataaagtat tacaaagtag tctatgggaa tctgtgtcct   420
tgcctcctta aaaaaaagct ccaaagagcc aaagcaaacc tgtcattttt gatagcttct   480
gaaataataa gcccctgtac ctgttatttt tgggctctgg gggttgggtg gatggccaat   540
gcagttaaat aggttcattc cagtgtatct taatagtgtt tcaagctgct gttaagttga   600
gcttttgggc aagaatcagt cttctcttat taatttatta aagatgttat ccaggaatgt   660
gcagccaaga ttttaacaat tggtgattat gatgtaataa aatatcagaa accatccaaa   720
```

<210> 5555
<211> 3163
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2759)
<223> similar to gi5726289 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5555
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atggggttat tcagaggttt tgttttcctc ttagttctgt gcctgctgca ccagtcaaat    60
acttccttca ttaagctgaa taataatggc tttgaagata ttgtcattgt tatagatcct   120
agtgtgccag aagatgaaaa aataattgaa caaatagagg atatggtgac tacagcttct   180
acgtacctgt ttgaagccac agaaaaaaga ttttttttca aaaatgtatc tatattaatt   240
cctgagaatt ggaaggaaaa tcctcagtac aaaaggccaa aacatgaaaa ccataaacat   300
gctgatgtta tagttgcacc acctacactc ccaggtagag atgaaccata caccaagcag   360
ttcacagaat gtggagagaa aggcgaatac attcacttca ccctgacct tctacttgga    420
aaaaaacaaa atgaatatgg accaccaggc aaactgtttg tccatgagtg ggctcacctc   480
cggtgggggag tgtttgatga gtacaatgaa gatcagcctt tctaccgtgc taagtcaaaa   540
aaaatcgaag caacaaggtg ttccgcaggt atctctggta gaatagagt ttataagtgt    600
caaggaggca gctgtcttag tagagcatgc agaattgatt ctacaacaaa actgtatgga   660
```

4062

```
aaagattgtc aattctttcc tgataaagta caaacagaaa aagcatccat aatgtttatg    720
caaagtattg attctgttgt tgaattttgt aacgaaaaaa cccataatca agaagctcca    780
agcctacaaa acataaagtg caattttaga agtacatggg aggtgattag caattctgag    840
gattttaaaa acaccatacc catggtgaca ccacctcctc cacctgtctt ctcattgctg    900
aagatccgtc aaagaattgt gtgcttagtt cttgataagt ctggaagcat gggggggtaag    960
gaccgcctaa atcgaatgaa tcaagcagca aaacatttcc tgctgcagac tgttgaaaat   1020
ggatcctggg tggggatggt tcactttgat agtactgcca ctattgtaaa taagctaatc   1080
caaataaaaa gcagtgatga aagaaacaca ctcatggcag gattacctac atatcctctg   1140
ggaggaactt ccatctgctc tggaattaaa tatgcatttc aggtgattgg agagctacat   1200
tcccaactcg atggatccga agtactgctg ctgactgatg gggaggataa cactgcaagt   1260
tcttgtattg atgaagtgaa acaaagtggg gccattgttc attttattgc tttgggaaga   1320
gctgctgatg aagcagtaat agagatgagc aagataacag gaggaagtca tttttatgtt   1380
tcagatgaag ctcagaacaa tggcctcatt gatgcttttg gggctcttac atcaggaaat   1440
actgatctct cccagaagtc ccttcagctc gaaagtaagg gattaacact gaatagtaat   1500
gcctggatga acgacactgt cataattgat agtacagtgg gaaaggacac gttctttctc   1560
atcacatgga acagtctgcc tcccagtatt tctctctggg atcccagtgg aacaataatg   1620
gaaaatttca cagtggatgc aacttccaaa atggcctatc tcagtattcc aggaactgca   1680
aaggtgggca cttgggcata caatcttcaa gccaaagcga acccagaaac attaactatt   1740
acagtaactt ctcgagcagc aaaattcttct gtgcctccaa tcacagtgaa tgctaaaatg   1800
aataaggacg taaacagttt ccccagccca atgattgttt acgcagaaat tctacaagga   1860
tatgtacctg ttcttggagc caatgtgact gctttcattg aatcacagaa tggacataca   1920
gaagttttgg aacttttgga taatggtgca ggcgctgatt ctttcaagaa tgatggagtc   1980
tactccaggt attttacagc atatacagaa aatggcagat atagcttaaa agttcgggct   2040
catggaggag caaacactgc caggctaaaa ttacggcctc cactgaatag agccgcgtac   2100
ataccaggct gggtagtgaa cggggaaatt gaagcaaacc cgccaagacc tgaaattgat   2160
gaggatactc agaccacctt ggaggatttc agccgaacag catccggagg tgcatttgtg   2220
gtatcacaag tcccaagcct tcccttgcct gaccaatacc caccaagtca aatcacagac   2280
cttgatgcca cagttcatga ggataagatt attcttacat ggacagcacc aggagataat   2340
tttgatgttg gaaaagttca acgttatatc ataagaataa gtgcaagtat tcttgatcta   2400
agagacagtt ttgatgatgc tcttcaagta aatactactg atctgtcacc aaaggaggcc   2460
aactccaagg aaagctttgc atttaaacca gaaaatatct cagaagaaaa tgcaacccac   2520
atatttattg ccattaaaag tatagataaa agcaatttga catcaaaagt atccaacatt   2580
gcacaagtaa ctttgtttat ccctcaagca aatcctgatg acattgatcc tacacctact   2640
cctactccta ctcctactcc tgataaaagt cataattctg gagttaatat ttctacgctg   2700
gtattgtctg tgattgggtc tgttgtaatt gttaacttta tttttaagtac caccatttga   2760
accttaacga agaaaaaaat cttcaagtag acctagaaga gagtttaaa aaacaaaaca   2820
atgtaagtaa aggatatttc tgaatcttaa aattcatccc atgtgtgatc ataaactcat   2880
aaaaataatt ttaagatgtc ggaaaaggat actttgatta aataaaaaca ctcatggata   2940
tgtaaaaact gtcaagatta aaatttaata gtttcattta tttgttattt tatttgtaag   3000
aaaatagtga tgaacaaaga tcctttttca tactgatacc tggttgtata ttatttgatg   3060
caacagtttt ctgaaatgat atttcaaatt gcatcaagaa attaaaatca tctatctgag   3120
tagtcaaaat acaagtaaag gagagcaaat aaacaacatt tgg               3163
```


<210> 5556
<211> 6772
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (188)...(4880)
<223> similar to gi3043584 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
         <400> 5556
         cagctgccag gtcgagggat gtactcgaac ctataattct tcacagagta ttgggaaaca    60
         catgaagaca gcacaccctg accaatatgc tgcatttaaa atgcagcgca aaagtaaaaa   120
         aggtcagaaa gctaacaact taaatacacc aaataatgga aagtttgttt attttttgcc   180
         atcaccggtg aacagctcaa atccattttt tacatcacag accaaagcca atgggaatcc   240
         tgcttgttcg gcccagttgc agcatgtctc gccacccatt tttccagctc atttagcaag   300
         tgtgtcaact ccattgttgt cctcaatgga aagtgtcata aatccaaata taacttctca   360
         ggataaaaat gaacaaggtg gtatgttatg ttcccaaatg gaaaatttac ctagtactgc   420
         cttgccagca caaatggaag atctaaccaa aacagttctg cctttgaata ttgacagagg   480
         ctcagatcct ttcctttctt tacctgcaga aagtagttca atagatctct tcccttcacc   540
         agcagatagt gggactaatt ctgttttttc ccaactggaa aataatacaa atcattattc   600
         ctcacagatt gaaggaaaca ctaattcctc cttttctaaag gggggtaatg gtgaaaatgc   660
         agttttttcct tcacaagtga atgttgcaaa taacttcagt agcaccaatg cccaacagtc   720
         tgcacctgaa aaagttaaaa aagaccgtgg gcggggccaa actgggaagg aaagaaaacc   780
         taagcacaac aaaagggcta aatggcctgc aattatcaga gatgggaaat ttatctgtag   840
         caggtgttac agggctttta ctaatcccag atcactgggt gggcacttat ccaagcgatc   900
         ttactgtaaa ccactggatg gagccgaaat tgctcaagaa cttctacaga gtaatggaca   960
         gccttctctt cttgccagca tgattctctc cacaaatgca gtaaatttgc agcagccaca  1020
         acaatctacc ttcaatccag aagcatgttt taaagatcca tcatttctac agcttcttgc  1080
         tgaaaatcgc tcgccagcat ttttaccaaa tacatttcct cgatctggtg tgactaactt  1140
         taataccagt gtcagtcaag aaggtagtga aattattata caggctttgg aaactgctgg  1200
         cattcccagt acatttgagg gtgccgaaat gctttctcat gtttcaacag gttgtgtctc  1260
         tgatgcatca caagtaaatg caacggtgat gccaaatcca actgtaccac ccctgttgca  1320
         cactgtatgc catccaaaca ccttgctgac caaccagaat aggacgtcaa actccaaaac  1380
         ttcctccatt gaggaatgta gcagcttgcc tgttttttcca acgaatgact tactactgaa  1440
         gactgttgaa aatggtttgt gctctagttc atttcctaat tctggtgggc catcacaaaa  1500
         ttttaccagt aacagttctc gtgtttctgt tataagtggt cctcagaaca caagatccag  1560
         tcatttaaat aaaaagggaa acagtgcttc taagagaaga aagaaagttg ctcctccact  1620
         aattgcacct aacgcttccc aaaacttggt aacaagtgac ttaacaacaa tgggactcat  1680
         agcaaagagt gttgaaatcc caactactaa ccttcattca aatgtaattc caacttgtga  1740
         acctcagagt ttggtggaaa atctaacaca gaaattaaat aatgttaaca atcagttatt  1800
         tatgactgat gtaaaagaga atttcaaaac cagtcttgag tcccatacag tgttagcccc  1860
         tttaacatta aaaactgaaa atggtgattc ccaaatgatg gctttgaatt catgcacaac  1920
         ttcagtaaat tctgatttgc agatttctga agacaatgtt atacaaaact ttgaaaagac  1980
         tcttgaaatt attaaaactg ctatgaattc tcaaatactt gaggtaaaaa gtggatctca  2040
         gggtgctggt gaaacttcac aaaatgctca aataaattat aacattcagc ttccttcagt  2100
         aaacactgtg caaaataaca aattacccga ttcttctccg cttttcctcc tttataagtg  2160
         tcatgccaac agagagtaac attcctcagt ctgaaggtat cacataagga ggatcagata  2220
         caggagattt tagaaggctt acagaaatta aaattagaaa atgacctatc cactccagca  2280
         tcccaatgtg tactgataaa tacatcagtg acactgactc ccacgcctgt aaatcaact   2340
         gcagatatca cagttattca gccagtttct gaaatgataa acattcaatt taatgacaaa  2400
         gttaataaac cctttgtgtg tcaaaaccaa ggctgtaact acagtgctat gacaaaggat  2460
         gcactattta agcactatgg taaaattcat caatacactc cagaaatgat tcttgaaatt  2520
         aagaagaatc aattgaaatt tgctcccttt aaatgtgtag tacctacatg tacaaaaaca  2580
         tttacaagaa attctaacct ccgggcacac tgtcagttgg tgcatcattt tacaactgaa  2640
         gaaatggtaa agttaaaaat taaaaggcct tatggaagaa aatctcagag tgaaaatgtg  2700
         ccggcctcac gaagtacaca agtgaaaaaa cagctagcta tgacagagga aaataaaaag  2760
         gaatctcagc ctgctttaga attgagagca gagacccaaa atacccacag taatgtagca  2820
         gtgatcccag aaaaacaact tatagaaaaa aaaagtcctg acaaaacaga aagttcttta  2880
         caagtgatta cagttacttc agaacaatgt aatacaaatg cactcacaaa cacacaaacc  2940
         aaaggacgga agattaggag gcataaaaaa gaaaggagg agaaaaaacg aaagaagcca  3000
         gtttcccaat cccttgagtt tccaacaaga tacagtcctt acagacctta tcgatgtgtt  3060
         caccagggat gctttgctgc ctttacgata cagcaaaatt tgattctcca ttaccaggct  3120
```

4064

```
gtacacaaat cagatctacc tgcattttca gcagaggtcg aagaggaaag tgaagctggt    3180
aaagaaagtg aagaaactga aactaaacaa actttgaaag aatttcgatg tcaggtaagt    3240
gactgttctc gaattttcca agcaattact ggcctaatac aacactacat gaaacttcat    3300
gaaatgactc ctgaagaaat tgaaagtatg actgcttcag tggatgttgg gaagtttcca    3360
tgtgaccagt tagagtgtaa atcttcattt actacatatt tgaactatgt tgttcatcta    3420
gaggcagacc acgggattgg actaagggca agtaaaacag aagaagatgg tgtatacaaa    3480
tgtgattgtg aaggctgtga ccgtatatat gcaacccggt cgaatctcct ccgacacatt    3540
tttaataagc ataatgacaa acataaggct catttgattc gtccaagaag attaacacca    3600
ggccaggaaa atatgtcaag caaggcaaac caagaaaaat caaagtctaa acatcggggg    3660
acgaagcaca gcagatgtgg aaaggaagga ataaaaatgc ccaagaccaa acgaaagaaa    3720
aaaaataatt tagaaaacaa gaatgcaaag attgtgcaga ttgaagaaaa taagccttat    3780
tctctgaaac gtgggaagca tgtatattct ataaaggcta gaaatgatgc cctgtctgag    3840
tgtacaagca gatttgtaac ccagtatcca tgtatgataa agggatgtac ttcagttgtt    3900
acaagtgaaa gcaatataat tagacattat aagtgccata aattatctaa ggcatttaca    3960
tcacaacacc gaaatcttct tattgtattc aaacggtgtt gcaactcaca agtaaaggaa    4020
acgtctgagc aagaaggtgc taagaatgat gtgaaagatt ctgacacgtg tgtatcagag    4080
agcaatgata attcaagaac aacagctaca gtttcacaaa aggaagttga aaaaaatgaa    4140
taagatgaaa tggatgaact aacagaattg tttattacaa aattaataaa tgaagatagc    4200
acaagtgtag agacccaagc taatacttct tcaaatgtaa gtaatgattt tcaggaagat    4260
aacctctgcc agtcagaaag acaaaaagca agtaatttga agagagttaa taaggaaaaa    4320
aatgtctcac aaaataaaaa aaggaaagtt gaaaaagctg aaccagcatc agcagctgag    4380
ttaagtagcg tgcgtaaaga agaagaaact gctgttgcca ttcaaaccat tgaggagcat    4440
cctgcatctt ttgactggag ctcttttaag ccaatgggat ttgaagtatc atttctgaag    4500
tttcttgagg agtctgcagt gaagcagaag aaaaatactg acaaagacca tccgaatact    4560
ggaaacaaaa aaggatccca ttcaaattca agaaaaaata ttgataagac tgctgtgact    4620
agtggaaatc atgtatgtcc ttgtaaagaa agcgaaacgt ttgtacagtt tgccaatcca    4680
tcacagcttc agtgcagtga taatgtaaaa attgttttag acaagaatct taaagattgc    4740
actgagcttg tcttaaagca acttcaggaa atgaaaccta ccgtcagtct gaaaaaactt    4800
gaagtacatt caaatgatcc agatatgtct gttatgaaag atatcagtat aggtaaagcc    4860
acaggcagag gtcagtactg ataattaatg tagtataaat acatcattta ccattttatt    4920
ttaaatagga agccatcaag catgctagaa ttgtgaaact ttcattatat ttttttgttg    4980
ttgacatgaa ttaacctggc caaaaacaaa aaagaaaaaa aaaacatgac atttgtcatg    5040
taaaactttt ttttatccct atgggacttg aggaacagaa tcagtacttc agttattgta    5100
aatagtgagc taaacctcaa atttctatca cccagttgcc cttttcatga actaaacaat    5160
tatctgtgtg attggtatgt ttcaccaggt cactgctcat gtataacagt actctttatt    5220
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gtaagtctaa actattaaat gacacattta tatttggaat tttaattttt aactaagcga    5340
tcaagttttt taaattgttc ttttattgtt ttaaattaag aactttttga actaaaacca    5400
gaaactctgc catagttcat tgatttttac atgaaacatt tatttacaag atgatatcaa    5460
gattactttt cacaaaatag gcacattata tcaacacttt gctctgcttt gtaaatttgc    5520
catccaggat tttggggtgg tattcatgtg aaattaaagc agattctcta gcagtttcct    5580
atagctacag tttttttttt tcattgcttc taattggata tagttactat gagtccatga    5640
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aaaaaaaaat cctttgtgaa tgtgatagaa aactagtagt gtggagcagt gtaaatattt    5760
gaggtggtga tttgtgaagt agcccagtat tgccttaaat aaaatcacat ttcatttctt    5820
gttttataca tgtgatctta taaagatttt ttgtttgtt ttgtttccca tttttctgaga    5880
tttatagatt ggtgtatagc tttaaactgt ataaagtttt gtggaaagat ttttttaaac    5940
atttttataa atcttaaaat tgatatcatc aaagtgagcc catcttgtgt ttataaaata    6000
caagagtcct taacatttat aattacatag ataaaacact ttctataagg aagttggatg    6060
ttttgatttt actgtttata gatgttagat tgtacagatt tgtctgtatt tctcaccata    6120
tctaatgata ctttttcat tagattggtc ttcaagaaca gtattagtta taattatttt    6180
ggttattcag tatatagtta gctcttacag tttagcttta ttcaccatat ttatactgtg    6240
gattcacagc gagaggtaga ggttattcca ggagagttga tgaccttcat ttaaagtcca    6300
actaaaatca gtagtagaaa cataagaaaa catctttgca atatttactt ttgtttctgt    6360
ttgccgtaaa tagtaacatt gtttttttt attttgtgtt tgttataaaa cagttgcatt    6420
cacaatatta ttggcctgag atattgatga tattgtgatg gtatgaaaat gtgtacattc    6480
cctgtgcaac atcagatttg caggaaaaat gaagcactta ctgaaatcgc tggtactctg    6540
```

4065

```
aataaataag catggtcaag gagtgaacta ttttcttttg gaaatttctt tttaattttt        6600
attattaaag tattttattt ttagggcctt ttgggtttta ttgaatagtt catttcacct        6660
gtttaagact tactaccaat aagcataaaa cctgacacgt taaaatccct gccctttggt        6720
gagcccactg ttatttatta aaataaaagt tattttatgg gtgattaaaa aa               6772
```

<210> 5557
<211> 2112
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (610)...(1245)
<223> similar to gi180189 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5557
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tgaagatcca catcttccgg ataaaatcca ggtcttttct ccaatatatg tcttcctgaa          60
gatccacgtc ggccagaaaa tccatgtctt ccagaaaatc catgtcttcc agtaacctcc         120
cagtcttcca gaaaatccac gtcttcccaa caatccaagt cttccggata atttgggtct         180
tcctgaaaat ctacgtcttc caaaaaagcc atgtcttcca gaaaatccac atcttccaat         240
ggcctccagg tcttccagac tatccatgtc ttccagaaaa tccttggctt cccttaaatc         300
tatagcttcc aaaaaatccg ggtcttccag gaaatccgtg tcttccagca agtccacgtc         360
ttccaacaaa gccatgtctt ccagactatc catgtcttcc agaaaatcct tgtcttccct         420
caaatccatg tcttccagaa aatccacgtc ttccagaaaa tatatgtctt ccaactaagc         480
tacgtcttcc aacaaatcca tgtcttccta tatctccagg tcttccagca tctccagggc         540
ttccagcatc tgctcgtctt ccaacatctc cacgtcttcc agcatctctg tgtcttccag         600
catcttcatg tcttccaaca actacccagt cttccatcaa ctggctcaat atccatgtct         660
tccaacgtct ccagtgtgct gatcttctga cattcaggtc ttccagtgtc tgcaatatcc         720
agggtttccg atggcacctg tgtcaaggtc ttccaacaac tccgggtctt ccagcgactt         780
caagtcttcc aataatctca aggtcttcca gataatcctg agcttccaga aaatccacat         840
cttccagaca atccatgtct tccggacaat ccatgtcttc caagaagctc caagtcttcc         900
agtaaatcaa gtcttccagc aaatccagtc ttccagcaat tactggtctt ccaccaaatc         960
cagatcttcc aggaaaatcc acgtcttcca ggaaatccat gtcttccaat aatttcaagg        1020
tcttccatca aatacagatc ttccagctaa tccatgtctt ccagaaaaat ctgtgtcttc        1080
caccaaatcc aagtcttcca gtaaatctag ttcttccaga aaaatctaga tcttccagtc        1140
aatcagtgtc ttccagaaag aaatccaggt cttccagtca atcagtgtct tccagaaaga        1200
aatccaggtc ttccagtcag tcagtgtctt ccagaaaaat ctacgtcttc caccaaatcc        1260
aggtcttcca gtcaatccac atcttccggg aaaaaatcca ggtcttccag ccaatatagg        1320
tcttcctgaa gatccacgtc ttccagaaaa tccatgtctt ccagaaaatc catgtcttcc        1380
agtaacctcc cagtcttcca gaaaatccac gtcttcccaa caatccaagt cttccggata        1440
atttgggtct tcctgaaaat ctacgtcttc caaaaaagcc atgtcttcca gaaaatccac        1500
atcttccaaa tggcctccag ggtcttccag actatccatg gtcttccaga aaatccttgg        1560
tcttcccctt aaatcctata gggttccaaa aaatccgggg tcttccaggg aaatccggtg        1620
gtcttccagc aagtccacgt cttccaacaa agccatgtct tccagactat ccatgtcttc        1680
cagaaaatcc ttgtcttccc tcaaatccat agcttccgaa aaatccaggc tttccaggaa        1740
atccgtgtct tccagcaaat ccacgtcttc caacaaagcc atgtcttcca tcaaattaat        1800
gtcttccagc ctacttgtgt cttccaacaa aggtcttcca gcatctccag ggcttccagc        1860
atctgctcgt cttccaacat ctccacgtct tccagcatct ctgtgtcttc cagcatcttc        1920
atgtcttcca acaactaccc agtcttccat caactggctc aatatccatg tcttccaacg        1980
```

4066

```
tctccagtgg gctgatcttc tgacattcag gccttccagt gtctgcaata tccaaggttt    2040
ccgatggcac ctgtgtcaag gtcttccaac aactccgggt cttccagcga cttcaagtct    2100
tccaataatc tc                                                        2112




        <210> 5558
        <211> 1810
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1774)...(114)
        <223> similar to gi1006659 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 5558
        tttttttttt ttaaggaaag gaactttaat gagaaatcaa aacacaggga accaaagtgc      60
        aaatcatcca cccccatgg ggggccatc ctgaacccca catcatcccc tcagcccct      120
        tcaggccccc agcgcaggcc cagggcctgg agcttctgcc tcaggtagct cttgagctgg     180
        ggcaggcctc tctgggactc cagttcctcg aagggtagcg gcaggagctg gtagcccatc     240
        aggcctaggt gccgctccct cagggccctc gagcccagtc aggcacccgg gccgtcccgg     300
        cagtaaatgc ccagccgttc ccgcaacacc agcaccaccc tctgggcaag ggtctcgagt     360
        agtggcgcta gaggcagcct gggccctgtg ggcaggaccc ttggtgggta tggcaggaag     420
        gggtcctggg tcctcacggg aagcacagca ccagagctgc tggcgcacag caggaagtct     480
        gtgcagtagc ctggaggcac agtcaggtcc tggcggtatt tctcctcccc cagcagctgg     540
        cgcaacccct cagctactat gtccttgtga ctgtacttgc agcgggcacg gtcggtgatg     600
        agaggctggg gaaagatggg cacttgctgc cttcggggaa ggcggggacc ccggtatcct     660
        gggagctcca gctccacggc cgtgtccagc agggagaggt agcgacgcac aatcagagca     720
        tgagggggtgc cactgatgta gttgatgaag ccaggggaaa aaacaaagtg cagggctctg     780
        aagggcaggc accgcagttg gcacagtgac atcaagatgt tgactgtagc caggggtgcc     840
        acccctgctt cccgagccag gatcctctca aggcagggca taaactgctg ttccaggggc     900
        aggtagttca gtcgcccaaa gggcaggacc aacttctgta ccaccttgct gctgagttgc     960
        gtttcctgaa ccaccaggaa gtgggcaatg gcttccagaa gctggggctc ccgcaaccgg    1020
        tgccgggcca ggtgctgggc caggagcacc atcacgtggg gagtcagttc ctctggcctt    1080
        gcctctgcca ggctgctgat cagatgctgc cgtggatacc gcagaaaacg ggggcagctt    1140
        agagcagctt ccaaccccttg cccacctcgg agaaggggct gcaaggggg aggtggcttc    1200
        ggagggaggc ggagccttcg ctcctgttcc agggcacaca ccagggcacc atcagatgga    1260
        aagccaagta agactgcaag gtgcagacac acgtggatgg tgtgaatgtc aaaggagggg    1320
        cagtttcgga tgatgagctg actcaagtcc tgcagtgtga cctgctccac aggaggggc    1380
        cgtggccgag acccaagag ctggcccaga cgacgaagcg ccaccgagta gtggtgggcg    1440
        cgcaccttgc tggggttctg gcccagccag cgcagcagct ccccagggct cttcgcctgt    1500
        tccagaagcc gctgcagtcc ttgcacagga cctgcactgg ggcctcctcc aacaggccgg    1560
        tccccccatt tgctgggccc caaacagcag ggctgtactg gagggatcag cagcaggcca    1620
        gacagccgag cagggggaggt ctgagcagag agcaggactc gaagcatgga gttgggtgat    1680
        ggagaccatg actccccggg ccctgcgcag gtcgctccct cagtcggtct cggggcccgg    1740
        gggccgggtt ccccccgcgg cctcctcatc ggctagccac cgagtccgcc atcttccccc    1800
        cacgcgtccg                                                         1810
```

4067

<210> 5559
<211> 1193
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (751)...(1100)
<223> similar to gi1619936 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5559

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ccatctttat gtctgtgtgt acctattatt tagctcccac tcataaatga gaacatgcag      60
tatttgactt tctgtttgtg agttaatttg ttctgggacc aaactgaggt tcgggctgct     120
atttctcacg gcccaataac gagatgcaga tgaactgggg aggaagagag ttatttctgt     180
aactggttac agggagaagg tctgaacatc atcaccagac caactccaaa ttacaaagtt     240
ttccagagct tatatacctt ctaagctata tgtctacctg taagtgtgca ttcacctaaa     300
gacataagtt actaacttct tttaatctat aactaaggtc tgagtcctga agaccttcct     360
ttggagcctc agtaaattta cttaatctaa atgggtccag gtgctggagt gattaccctt     420
atcttgtctt ctgctaaatc actgaagttt gaggagttcc tttagacctt caataaactt     480
gtttgtagag gcctggagag tttcttcaca acccacagta aaacttgttt aatcctgaat     540
gggtcctgtt aagaattcct tcattattct gtcatgcttt aaggcccagg gaaagcctag     600
gcaaaactct tgataggctt ttgttacatt ccagcctttg tgaaagggca ctggcttttt     660
tagctttaa tatttaactt aaccactcag tcagtactga aacagtcgtt atggaggcct     720
gcattagtga gacctggcct gccacaatcc tgtgttcatg tattgaaaga ctgtattatt     780
aagatggcag tactacccaa agcagtctac agattcactg agagccctat caaaattcca     840
acagcctttt tgaaaaatgg aaaagcttac catcaaactc atatggaatt gtaaacgccg     900
tgaatagcca aaacaatgcg gaaaaggcca aagttggagg actgacactt cccaatttca     960
aaacttacta taaaactaca gtggtctaaa cagtgggctg ttggcacaag tacagatgat    1020
actaacatac agatcaatag aatagaattg aggcttcaga aataaaccca tacatctatg    1080
gccaactgac tttcaacaaa tgatgctgca ataactgaat gtacacatgc aaaaaaaaag    1140
ttgaacctct atgtgatatt gcgatagaaa aaaaacatat ttttgggctt tgg          1193
```


<210> 5560
<211> 1260
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1254)...(1082)
<223> similar to gi299471 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5560

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tccttctctg gccttgccct tgccctgttc cctttctggt cctgccatgt ttctggccct     60
gccctgtcca tgtcctggac ctgactctgg ccctggacct ccctgtccct gccctgccat    120
accttggccc gttccttgct ctacactgac cctgccctgc cttggccctg tgctacccta    180
gccctgccct ggccttctgc tgaccctgat cctgccatgg ccctggccct gccatgtccc    240
tgccctggcc ctggttctgc cctgcttctg gccctggcct tggtcctctc atgtccctgg    300
ctgtgaccct gcccctggtt tttctctggc catgaccctg ccccggttct gtcctatccc    360
tggccctgtc tcagttctgt cctagccctg gcctttcaca gtactttatg cttagtaagg    420
gctccatggt gtctgtgagt tgaatgttgt attcatagta tctgccaaaa cagaaagaaa    480
aaaaacaaaa tattttgata agaagttaaa gctttgtata taatatgcct tgaattgtaa    540
gtgcctgtta ttagttgtat tacatatagg tcatggtttt gtacacataa ctccaaacca    600
ttgatactgt taaaagaata tatgaatata tgaaagaatg tataaacgta agaatgtatc    660
agtatctaat gacctttcca aattaatttt tatttttagc tctgttagat ttttctcagt    720
gtaacaaatg tttattccta tgtaattaag ggcgtatttc ctgtacagaa tattcatatt    780
acctaattga aaattatatg atacaaaaat ataatactat ttttagccag gcatggtggc    840
tcatacctgt aatcccaaca ttttgagagg ccacgtttgg agaatcattt gagtccagga    900
gttgaccagc ctgggcaaca tagtgagacc ttgtccttat taaataaata aataaataaa    960
taggttgggc actgtggctc atatctgtca tcccagcatt ttgggttgcc caatgcagga   1020
ggattgcttg agccccagga gtttgagacc agcctgggca gaatagcaag actccatctc   1080
tacaaataat aaaatattaa ccaggtgtgg tggtgtgcac ctggggtacc agccacctgg   1140
gaggctaagg tgggaggttt gctcgaggct gcagtgaact gtgaatgcac cactgcattc   1200
cagcctaggc catagaacag gatcttgtct ataaataaag aaataagtaa aaatataaat   1260
```

<210> 5561
<211> 8514
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (453)...(6673)
<223> similar to gi6002696 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5561
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gcagcgggga gacccaggct gcagcaacaa agggcagcga gcgattggcc gggctgcagg    120
cgagatttgc ctgaagacct ggataatctc cattttgtc atggactgtt aaaacgtttg    180
aagttccaat tctggtcttg atttcccagt taaagatgtt cttcacccga atgcagtctt    240
tcctgttggt aaaataagac aaccatcaac attgcctgtt tgtctgcttt tgaatctctt    300
aaggatggat gtttgtaaga tgttgcttaa tacagtctgg aatactctgt ccatttgttg    360
aattgtaaat gactttcaaa tgtgcaagtt ctgttaaata caaagagaac ctctatgggt    420
aacttttgtg ttgaagaagt catttgtcaa ccatggtaaa acttgcaaac ccactttata    480
cagagtggat tcttgaagct atacagaaaa taaaaaagca aaagcaaagg ccctctgaag    540
agagaatctg ccatgcggtc agtacttccc atgggttgga taagaagaca gtctctgaac    600
agctggaact cagtgttcag gatggctcag ttctcaaagt caccaacaaa ggccttgcct    660
cctataagga cccagacaac cctgggcgct tttcatcagt taaaccaggc acttttccta    720
agtcagccaa ggggtctaga ggatcatgta atgatctccg caatgtggat tggaataaac    780
ttttaaggag agcaattgaa ggacttgagg agccgaatgg ctcctccctg aagaacatag    840
agaagtatct cagaagtcaa agtgatctca caagcaccac caacaaccca gcctttcagc    900
agcggctgcg actggggggcc aaacgcgctg tgaataatgg gaggttactg aaagacggac    960
```

```
cgcagtacag ggtcaattat gggagcttag atggcaaagg ggcacctcag tatcccagtg   1020
cattcccatc ctcgctccca cctgtcagcc ttctacccca tgagaaagac cagccccgtg   1080
ctgatcccat tccaatatgt agcttctgtt tggggactaa agaatcaaat cgtgaaaaga   1140
aaccagaaga actcctctct tgtgcagatt gtggcagtag tggacaccca tcctgtttga   1200
aattttgtcc tgaattaaca acaaatgtaa aggccttaag gtggcagtgc atcgaatgca   1260
agacatgcag tgcctgtaga gtccaaggca gaaatgctga taatatgctt ttttgtgatt   1320
cctgtgatag aggatttcat atggaatgct gtgacccacc actttccaga atgccaaaag   1380
ggatgtggat ttgccaagtc tgcagaccaa agaaaaaggg aagaaaacta cttcatgaga   1440
aagctgcaca aataaaacga cgatatgcaa aacccattgg acgaccgaaa aataaattaa   1500
agcaacgatt gttgtctgta accagtgatg aaggatccat gaatgcattc acaggaaggg   1560
ggtcacctgg taggggtcaa aagactaaag tctgtaccac accttcatct ggtcatgctg   1620
catctgggaa ggactcaagc agcagattgg ctgttacaga ccccactcgg cctggtgcca   1680
ccaccaaaat caccaccacc tccacctaca tttctgcctc tacacttaaa gttaacaaga   1740
aaaccaaagg gctcattgat ggccttacta agttttttac accatcacct gatggtcgca   1800
gatcacgagg tgaaattata gacttttcaa agcactatcg tccaaggaaa aaggtctctc   1860
agaaacagtc atgcacttct catgtgttgg ctacaggtac cacacaaaag ctaaaacctc   1920
caccttcttc acttccaccc ccaaccccca tctccggtca gagccccagt tcacaaaagt   1980
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agagtggggt ggaagactgt ggccggtacc cttctgtgat tgaatttggt aaatatgaaa   2640
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aagaagaaga ggaggaggag gacgaggagg aggaagaaga ggaggaagaa gaggaagagg   3720
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gaaagcatt ccagcatcag cctgggaaga aagacaaac agaggaagag gaaggaaaag   4080
acaatcattg cttcaagaat gctgaccctt gtagaaacaa tatgaatgat gattcaagta   4140
acttgaaaga aggcagtaaa gacaatcccg aacctctaaa gtgcaaacaa gtgtggccaa   4200
aaggaacaaa gcgcggtcta tctaagtgga ggcaaaacaa agagaggaag accggattta   4260
aactgaattt gtacaccccg ccagaaacac ccatggagcc tgacgagcag gtaacagtgg   4320
aagaacagaa ggagacttca gaaggaaaaa ccagccccag tcccatcagg attgaggagg   4380
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4070

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aggtcaagga aactggggaa gccctgttgc ctcaagagga aaacagaagg gaagaaacat    4440
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ctgaggaaga ggaagaggag gaggaggagg aagaggaaga agaggaagaa gaggaagggg    4560
aagaagaaga aggaggagga aatgtagaaa aagatccaga tggtgctaaa agccaagaaa    4620
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tccacaccat taagtaacac agggcttgtt caactttctc agtctccaca ctccgtccct    6060
gggggacccc aagcacaagc taccatgacc ccaccccca acctgactcc tcctccaatg    6120
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4071

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aggatccagc gacactattg caccttatct gttctctttt tagtcagtca cttcaaaaaa   7860
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tcatgtgtca cgcctcagaa cacatacaca ttttgggaaa ataaattatt tagtgtaaat   8040
tggagttatg ggattttctg atttgttttg actttggggg aggggttggc aataaataag   8100
agtaatatct aataaaacca tcacatatac caaataccta tttaataaat taatttataa   8160
tggattttaa tgcttttcat gaaagtttat tttatgcgag tgcatacctt ctgtatgcca   8220
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caaagagatc ccgcacaaat atccagctgc ctcactcgca cagtctgtag aaacatccct   8340
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cccaatttgg gattgtatgt ttgaaaaatc attttctttt taaaaagtgt gaacgttttg   8460
ctctgttgtg aatgattaat tgtatgtttt ctttagagtc taaagtttag accc         8514


         <210> 5562
         <211> 8066
         <212> DNA
         <213> Homo sapiens

         <220>
         <221> misc_feature
         <222> (7728)...(703)
         <223> similar to gi31397 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters


         <400> 5562
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caactgcata ctaagtgttt tcaatacaat tttttccgta taaaaatact gggaaaaatt     180
gataaataac aggtaagaga aagatatttc taggcaatta ctaggatcat ttggaaaaag     240
tgagtactgt ggatatttaa aatatcacag taacaagatc atgcttgttc ctacagtatt     300
gcgggccaga cacttaagtg aaagcagaag tgtttgggtg actttcctac ttaaaatttt     360
ggtcatatca tttcaaaaca tttgcatctt ggttggctgc atatgctttc ctattgatcc     420
caaaccaaat cttagaatca cttcatttaa aatactgagc ggtattgaat acttcgaagc     480
agaacaggca atgtgcagcc ctcatttatg agaaaaccct caggaaactc ccaggtgat      540
gcttggagaa gctgtgagtt gagctgaagc tggagaactt cctccagagc aaagggctta     600
agaaagaaag aagaactcta agctgggtct gctaacatca ctccagttta gatggatctt     660
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<212> DNA
<213> Homo sapiens

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<223> similar to gi4582149 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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<220>
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ccacttcagt tccttccagg agaaaatgca gattccttgg gcctctccgg tagagaaaca    2880
ttttctttaa catttcctga agaactgtct cctggaatta cattgaatat acagacaagc    2940
actggaaaag tattcagcgt gattgcttcg tttgaagatg atgtggaaat aacattatac    3000
aaacatggag gattattaaa ctttgtggca cgaaaattct catagtatct acttaccata    3060
gataccttc ataactggta actgcaaagc cttttgtgct ggacccagga atccttacca    3120
```

```
tggagcagca gatagtccca gtatactcac ttatctcatc catggatgta aatgatgatg    3180
aatcaacata gtaactgaaa tgaaatcttc ttgattttaa ataatatacg aatggtgcta    3240
ttaatattgc taaaatcaac gtgtgaagtg tgttgtggaa gagacctgta agtatggggg    3300
ggggcgatat tttatcagac cattttgtaa ataaaggcag aatttgtgtt gaagattctt    3360
atatgaataa ccttcctgga tttgtttagt tttgcaccaa taaaactgtg tactactgtt    3420
tgttggttta agagtagcag attgaaatat aagaagccag attagactct aaaattgtgg    3480
ccattgggaa tctcatttat aaatggacct tttaagtata ttaattcctc ttcagaattg    3540
agctgggaca catttgggca ttcttagttt gtcatataac caggtttatc cttagtctaa    3600
ctgcaaggga tagaacctgc cccaggtcac caatccattc tggtccaatc ccagcccaag    3660
gttcccttcc cacatatgaa gatggaccat ggcaggatac aactgattgt gtggcaccat    3720
gtattagcag tgggaatatg tatcacatat gatgcagcct ttcatatttc agcagtttgc    3780
cactgtgact gtctggcaag cccccagatg gcgttatatt aattggatta gattattttg    3840
ctcaccttat gtaatactgt aacttcctat aacctaatat tttcggtatc attaaccaaa    3900
atttcacact catagttgct aaagagaatg ttattcaatc attaaactct gaactgattt    3960
cttctataca tttaaattat ccaccctcaa taatacgggt gctcaaccct atgcattttt    4020
taagtgttgc tatttcttaa ttaaattgat ttcctgtcat tttgaatcat ttatcacctg    4080
cgatgcatga ttctattaat tttgttatgt tactgtttta accaaagctg accgtaagga    4140
taaaacactt aagttgttgc tgagtactat atatcctcaa tatgcatgtc tgcccatcac    4200
atcaaatgtt ctgtcaacaa gatgtttggt aatttttttt aaaaaggttg gaaaattaat    4260
tatagaaggt tctatactgt tttttttaatt aagaaactaa atctagcagg ctaaaggtta    4320
attgtagtga ttttttttca catagatatc tttctatgac ctagttagtt actgcaattc    4380
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accagtggat gaagaccact aagaactttg cacataatca tacaatcttt tgaaaatatt    4500
ttgcaaatat gtgtttagac aataagatgg actagagttc gacaaaatga tttctttatt    4560
taaattttgt ataagtattt tcttcgacac tttcaaatta tattgtgttc ttgatatatg    4620
ctgtatattt atttgttagt gcatgtgttt ttaatttaca tgaaaacatg agttaggaga    4680
aattacaggt tgaaagatga aatgcctgta tgtgctctga agaaatggta attccagatt    4740
gtgcaggggg aaacaaatct attttgtttt gttttgtttt ttgagacgga gtcttgccct    4800
gtggctgggc tggagtgcaa tggcgcgatc ttggctcact ggcacctccg cctcccggga    4860
tcagggtatt c                                                         4871
```

<210> 5567
<211> 2950
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2951)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (17)...(2780)
<223> similar to gi33989 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5567
```
cggacgcgtg gggagcatgg acggtgccat ggggcctcgg gggctgctgt tgtgcatgta      60
cctggtatct ctcctcatcc tgcaggccat gcctgccctg ggctcggcta caggcaggtc     120
```

```
caagagcagc gagaagcgac aggctgtgga caccgctgtc gatggcgtgt tcatccggag    180
tttgaaagtc aactgcaaag tcacctctcg cttcgcccac tatgttgtca ccagccaagt    240
ggtcaacact gccaatgaag ccagggaagt ggccttcgac ctggaaatcc ccaagacagc    300
attcatcagt gactttgccg ttacagcaga tggaaacgca tttatcggag acataaagga    360
caaggtgact gcatggaagc agtaccggaa agcagctatc tcaggagaga atgccggcct    420
tgtcagggcc tcggggagaa ctatggagca attcaccatc cacctcaccg tcaatcccca    480
gagcaaggtc acgtttcagc tgacttatga ggaagtgctg aagagaaacc atatgcagta    540
tgaaattgtc atcaaagtca agcccaagca gctggtgcat cattttgaga ttgatgtgga    600
catcttcgag ccccagggga tcagcaagct ggatgcccag gcctctttcc tgccgaagga    660
actggcagcc caaactatca agaagtcctt ctcaggaaaa aagggtcatg tgctgttccg    720
tcccaccgtg agccagcagc agtcctgccc cacatgctct acatccttac tgaacgggca    780
cttcaaggtg acctacgatg tcagtcgaga caagatctgc gacctcctgg tggccaataa    840
ccactttgcc cacttctttg cccccccaaaa cctgacaaac atgaacaaga cgtggttttt    900
tgtgattgac atcagtggct ccatgagagg ccagaaagtg aagcagacca aggaggcact    960
ccttaaaatt ctggggggaca tgcagccagg ggactacttt gacctggttc tttttgggac    1020
tcgagtacaa tcgtggaagg gctcgctggt gcaagcatct gaggccaacc tacaagcagc    1080
tcaagacttt gtgcggggct ttttccctgga tgaggccaca aacctgaatg gaggtttgct    1140
ccggggaatt gagatcttga accaagttca ggaaagcctc ccagaactca gcaaccatgc    1200
ctcaatactc atcatgttga cagatggcga tcccacagag ggggtgacgg accgttccca    1260
aatcctcaag aacgtccgca acgccatccg gggcaggttc ccgctctaca acctgggttt    1320
cggccacaat gtggactttta actttctgga ggtcatgtcc atggagaaca acggacgggc    1380
ccagagaatc tacgaggacc atgatgccac ccagcagctg caggtttctt acagccaggt    1440
agccaaaccc ctgctggtgg atgtggattt gcagtacccc caggatgctg tcttggccct    1500
gacccagaac caccataaac agtactacga aggctcagag attgtggtgg ccgggcgcat    1560
tgctgacaac aaacagagca gcttcaaggc tgatgtgcag gcccatgggg agggacaaga    1620
attcagtata acctgcctag tggatgagga ggagatgaag aaactgctcc gagagcgtgg    1680
ccacatgctg gagaaccacg tcgagcgcct ctgggcctac ctcaccatcc aggagctgct    1740
ggccaagcgg atgaaggtgg acagggaggt gagggccaac ctgtcatccc aggccctgcg    1800
gatgtcgctg gactatgggt ttgtgacccc actgacctcc atgagcatca ggggcatggc    1860
ggaccaggac ggcctgaagc ccaccatcga caagccctca gaggattctc cgcctttgga    1920
gatgctggga cccagaagga cgttcgtgct gtcagccttg cagccttctc ctactcattc    1980
cagctccaat acccagcggc tgccagaccg agtgaccggc gtggacacag accctcactt    2040
catcatccac gtgccccaga aagaggacac cctgtgcttc aacatcaatg aggagcctgg    2100
tgttatcctg agcctggtac aggaccccaa cacaggcttc tcagtgaatg gacagctcat    2160
tggcaacaag gccaggagcc ctgggcagca tgacggcacg tacttcgggc ggctgggaat    2220
cgcaaaccct gccacggact ttcagttgga agtgactcct cagaacatta cgctgaaccc    2280
cggctttggt gggcctgtgt tttcctggag ggaccaagct gtgctgcggc aggacggggt    2340
ggtggtgacc atcaacaaga gaggaacct ggtggtgtct gtggacgacg gtggcacctt    2400
ttgaggttgt ttttgcaccg agtgtgggaa ggggagctcg ggtcnaccag gacttcctgg    2460
ggcttctaat gtgctgggac aagtcaatcg ggatgtcaag cccgggacgc aagggctgct    2520
gggggcaaat ttttccaacc ccaacgggtt ttgaaatgtc tgaaaatcca ccccaggct    2580
ccgaccccca aaaagcccaa atgcccacga tggtggtgag gaacccgccc ggcctcacgg    2640
tcacccaggg gtttgcaaaa agactacagc aaggacccgt ggcatggggc cgaggtgtcc    2700
tgctggttca tttcacaaca atggggcttg aattcaccga ttgtgcctac actgattata    2760
ttcgtccccg acatcttctg agccctctgg gccagcaacg cctgttccnt gcccccgggg    2820
gccaaggcag aggaggagga cgacatcctg acctgctgct gaggctgtac ctccttgacc    2880
taagctggtt cctttgtgtc aaagcacctc atgccttccc attaaagaga ggccgtgtcc    2940
aaaaaaaaaa                                                          2950
```

<210> 5568
<211> 1673
<212> DNA
<213> Homo sapiens
```
```

<220>
<221> misc_feature
<222> (1582)...(144)
<223> similar to gi5777952 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5568
tttttttttt ttgagcggtt ttcttaagtg tctttaatac tccactcagg gcagtcccct   60
ccctctactg agaggctctt ggctctggcc ccaagagcag ctggaaggcc ctggcctgaa   120
cttcaaccaa cttgaatgtc caaggctgtg tgtgccacgc tccctggctc tggtacgtgg   180
tatgcaagca cctctcgggc cttgggggag tttgatcccc tccagccact cctgggtaca   240
gcctcctgca cgtgtgcacc tggactccgg acgccgcaca gggatgtcta agtgtaaatg   300
ccttccattc tgcccgcagc aggggcctta tccgcatgtc cgtctgggag tctggggctt   360
ggcctcttgc cattttaagc atcctccaag cacaagggga ggacccttcc acaaagtggg   420
aatggggggaa ctttgccctt ctttaaaggt ttcaaggatc aagtttctgg gatgtttcga   480
aaggcatagg gttccaagac aaaggtttac acccatcttt tcggttcttc ttcaagggtg   540
accttctgtg gaaatctttg gtttctaagg gttcggtaag gtgactcctc cacatccctc   600
cgttgaacag ctccttgggc cgcatgtctg aagatgtgtg ccaggtgccc gtctgagctg   660
gctccatcat gacgcgtcac tttgtcctcc ttcaagtctc caaacagagt gtcgacggca   720
gcatctctca ctgagaggtc accttgctcc cattaatttg aagcaaattt cacctgatgt   780
taaacacgca agtcaagcgc ccccgggaag ccatgcaaag ccaggggggaa gggctttccc   840
tgaagagcct cccagcttct tgtcattaac caagggggcca ccaatgaccg tggaaaaatc   900
ttctctggag acaaggttct gctgtctggc cgaaataatc cttcaccaaa gaacccatga   960
cctgctgggg ggactttggc ggtgccaaga aggtgggcca gtgatggggc gacccccagca   1020
acccgctccg gcgtatcgga ccccagccca ggacaggcag aggtcagcat ggggcagggt   1080
gcgttccctc cctcactgtg ctggcgaata acgacgcacg aattctttt gactctccca   1140
ggatactaaa atccgcagct atcgtcgtat caaatacata gtgcacccccc aagactttg   1200
aggaaaccac agagtcttct ggatgcaatc agttacactg aggttgaaat ttagccagca   1260
aaaataaggc aaagattgag gacacacaga cactaaccag cactttgtgc tttgaggtat   1320
cacatttctt gttaaggttc agaacgcgga agaagtcctt ggcattttgc tgggaaagtt   1380
ggactccttc ctctgcagtc atacagctgt cacatgccag gcagtcgctc aaaaatatct   1440
tggcatcagc caacttgtgg aattctccct tctctccatt ttcctgggct ggactcggtg   1500
catcggctga cacattctct tggtcatcag tttttgtttt cttactacat tccttgcgcg   1560
tgcagtgctc acacttcatc tggagcgcgg cgggcgggag gccgggcgcc tcagactcag   1620
ggaagcaccg ggagactggg acaccactgc ccgccgcccg cggccctttg ttg   1673

<210> 5569
<211> 2934
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2850)...(699)
<223> similar to gi1665773 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5569
```
         tttttttttt ttcgtgtggg ataatctatt ttaatgaaag tcattatata taatatttaa     60
         caaaaagaat aaaggaaaaa gacaaaaaca aaaatagata ttccagctta ataaaaagta    120
         caactgagca ctgtgggctg gaggtgggat acccacccgc agcacgccca ccctaatgtg    180
         ccatctgagg gcctggagaa aggacagtgg gaaggagaca gtaggctcag cccagagatg    240
         cccctgtcct caggggctca atgtagtttg accctgacat taaacctttt atgtccttcc    300
         cagtcaggaa ggtggctggg tacaggggtg ggggtgagga gcagagagag gtacagggca    360
         ggaaggaaaa agtagaaggg tcctgaaggg caaattaggg tgggtaacta gggagttaaa    420
         caggagcaag aagcttctat ttgtaatccc aaaatctggc atgagtagag aaggaagagg    480
         aaatggggaa ggggtgatgg gaaaggggag cggaggaagg gaggcaattt atttatttct    540
         ccctgtctct tttggatagt tccactcttt tatgttaatc ccaatctgag acaggcccag    600
         ggaggttcca gtgacaaatt agtggttgtg tcccagtggg acagatgctc taggaagtga    660
         actgctgagc tggcaagaaa agctggggtc ctcctcagta tgacacagct cctggctccc    720
         ggggagcaat gaaaaggaca tcagctttgg cattgatgca gtaggtgacg atgagggaga    780
         agatgaggat gccgaagccc actgtcaggg tgatcaactc aagctctttg ctggcgatga    840
         gaaatatccg ggcacggata tctttccagc ggctctcagt ccatgtagag tattcagtag    900
         agctccactg actcagttca aaggcaggag acaaggccct ggctaatcgt gcagtagaac    960
         gcacacaccg ggggagtcgg tccgtctcat tagaatgcaa agggccctgg acccatgagt   1020
         actcatacag atccttgttt tcacttggga ctttacttgg atcctggcac tgctctcggg   1080
         tgaggttgac cactgtgcca gtcaaatttg ccaaggcata ctgtaacaaa cataaatggt   1140
         gttggtgggg ctggaaaaca gcgatgtaaa tgttgaaaga ggccccgtca ccccaagtaa   1200
         gaccttaggt ccctgccctg aaggatagac tggaaccatg agttgttggc tttaatcagg   1260
         aaccccatag agcaggcggg taaccgtttg gggatcagcc tgaactgtgt cgctgaagtt   1320
         ggttcctcct gcaagctcat acagagcacg tcccagcacc gtggccacat ctgccagggc   1380
         cttggcagtg tcctgttaac caaagttcca ggtccctcct tcaagggctc aagccattcg   1440
         ggatagctca cattaatgtt ctcagcagtg tcgtaaatac tctggtaata tttgttatgg   1500
         aaggcaccag agtggtcagc cagaacaacg ccagagatgt ttcgagctcg aagaaatcgc   1560
         tgcagggaag atggtgggag aggctgggac tgatttggcc tcctgaggat gacagcaggg   1620
         acaccagcac cactcttctc caatgtggcc aggagatcct ccacctggtt ccgtacagac   1680
         tcatttttct gagaaacagg atctgtgtgc atccaaagct ctaatgaagt tcttaaggcc   1740
         acctgtccca gctccacaaa tgagtcaaca ttctctaact gcacgggaaa cttgcccttc   1800
         tccatatcgt agaccatcct cgagctgcca atgtagtcaa aagtttcccc ttgaaagaag   1860
         acaaacatga cattgcgggg cagggtggtc acatcaggtg ccttttgcaa agcttcagca   1920
         gcagccagct gggtgacaaa ggaagccact gcgctttcag cccctggggc ccacattcca   1980
         gaaaaaggaa cgactatcca gccgggtggc agcaaccaca accctgtcgt caggctttaa   2040
         tgtcccagtt gtatttatag gctttagcat gctccacaca ttgtaatcag acaggggggtc   2100
         acagacgatt tttgggttga tgctgaaggt gctttggatg gagctgcgcc gcatgccagg   2160
         tggcagtgct gaatgacagc catgccatgt gtgaaaagag ctgcatggca catagtggga   2220
         aggttggtgc tgagccattc tgactcaggt tgtgatcttg atagcactgc ttgatgactt   2280
         tggtttcatt ttcatcttca agaagaaaga tggggaaact aaagtcttca taagccaaac   2340
         cattgcccag cgaattccac tgtatttctc tgcagtgagc aaactctggc ccataggaat   2400
         tggagtaaac accaaaccca tcatttgggc actgtacact aggagagaag cctgaggcag   2460
         gactgggctt ggtcaaggac actgcaagac cagcaattcg gctggttctc cctttcagct   2520
         tctccattaa atccctggta aaatgcttgc tctccagcag aaccatgtaa gggggggttgg   2580
         ggccatcagt caatacccac tgtaggtcct cctctttctc tactacgtgg ataacccctg   2640
         tgtctccact aattgaagac tggcagccaa tctgatgagt ggcgttgagc aggcgaacac   2700
         agggagctgt tttatttaag gggatatata tcttcctctc cactgagttt ccccttgcaca   2760
         aacctgctag taggacgcag aaagacagaa ggcgaaggag accccgactt cccgggtcag   2820
         ccccagagcc acccctgcc gtagccatct tgcctctctg ctgagcgaaa gcccccgttc   2880
         ggctcctgtc tgttagcggc ctctctaggc taccactgac accgtctctg tggc          2934
```

<210> 5570

<211> 3786
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (385)...(3787)
<223> similar to gi4324434 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5570

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gtccgaattc ctggtcgacg atttcgtcaa atggcggcgg cggcggcggt ggcctggtgt    60
taaggggaga gccaggtcct cacgacccct gggacgggcc gcgctggccc gcggcagccc   120
ccccgttcgt ctccccgctc tgccccacca gggatacttg gggttgctgg gacggactct   180
ggccgcctca gcgtccgccc tcaggcccgt ggccgctgtc caggagctct gctctcccct   240
ccagagttaa ttatttatat tgtaaagaat tttaacagtc ctggggactt ccttgaagga   300
tcattttcac ttttgctcag aagaaagctc tggatctatc aaataaagaa gtccttcgtg   360
tgggctacat atatagatgt tttcatgaag aggagtgaaa agccagaagg atatagacaa   420
atgaggccta agacctttcc tgccagtaac tatactgtca gtagccggca aatgttacaa   480
gaaattcggg aatcccttag gaatttatct aaaccatctg atgctgctaa ggctgagcat   540
aacatgagta aaatgtcaac cgaagatcct cgacaagtca gaaatccacc caaatttggg   600
acgcatcata aagccttgca ggaaattcga aactctctgc ttccatttgc aaatgaaaca   660
aattcttctc ggagtacttc agaagttaat ccacaaatgc ttcaagactt gcaagctgct   720
ggatttgatg aggatatggt tatacaagct cttcagaaaa ctaacaacag aagtatagaa   780
gcagcaattg aattcattag taaaatgagt taccaagatc ctcgacgaga gcagatggct   840
gcagcagctg ccagacctat taatgccagc atgaaaccag ggaatgtgca gcaatcagtt   900
aaccgcaaac agagctggaa aggttctaaa gaatccttag ttcctcagag gcatggcccg   960
ccactaggag aaagtgtggc ctatcattct gagagtccca actcacagac agatgtagga  1020
agacctttgt ctggatctgg tatatcagca tttgttcaag ctcaccctag caacggacag  1080
agagtgaacc ccccaccacc acctcaagta aggagtgtta ctcctccacc acctccaaga  1140
ggccagactc cccctccaag aggtacaact ccacctcccc cttcatggga accaaactct  1200
caaacaaagc gctattctgg aaacatggaa tacgcaatct cccgaatctc tcctgtccca  1260
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cctaatcaag gacagagagg cattagttct gttcctgttg gcagacaacc aatcatcatg  1380
cagagttcta gcaaatttaa ctttccatca gggagacctg gaatgcagaa tggtactgga  1440
caaactgatt tcatgataca ccaaaatgtt gtccctgctg gcactgtgaa tcggcagcca  1500
ccacctccat atcctctgac agcagctaat ggacaaagcc cttctgcttt acaaacaggg  1560
ggatctgctg ctccttcgtc atatacaaat ggaagtattc ctcagtctat gatggtgcca  1620
aacagaaata gtcataacat ggaactatat aacattagtg tacctggact gcaaacaaat  1680
tggcctcagt catcttctgc tccagcccag tcatccccga gcagtgggca tgaaatccct  1740
acatggcaac ctaacatacc agtgaggtca aattctttta ataacccatt aggaaataga  1800
gcaagtcact ctgctaattc tcagccttct gctacaacag tcactgcaat tacaccagct  1860
cctattcaac agcctgtgaa aagtatgcgt gtattaaaac cagagctaca gactgcttta  1920
gcacctacac accttcttg gataccacag ccaattcaaa ctgttcaacc cagtcctttt  1980
cctgagggaa ccgcttcaaa tgtgactgtg atgccacctg ttgctgaagc tccaaactat  2040
caaggaccac caccaccccta cccaaaacat ctgctgcacc aaaacccatc tgttcctcca  2100
tacgagtcaa tcagtaagcc tagcaaagag gatcagccaa gcttgcccaa ggaagatgag  2160
agtgaaaaga gttatgaaaa tgttgatagt ggggataaag aaaagaaaca gattacaact  2220
tcacctatta ctgttaggaa aaacaagaaa gatgaagagc gaagggaatc tcgtattcaa  2280
agttattctc ctcaagcatt taaattcttt atggagcaac atgtagaaaa tgtactcaaa  2340
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tccgtcttaa aagggctaaa atggacaagt ctatgtttgt gaagataaag acactaggaa  2520
taggagcatt tggtgaagtc tgtctagcaa gaaaagtaga tactaaggct ttgtatgcaa  2580
```

4086

```
caaaaactct tcgaaagaaa gatgttcttc ttcgaaatca agtcgctcat gttaaggctg    2640
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aagataagga caatttatac tttgtaatgg actacattcc tgggggtgat atgatgagcc    2760
tattaattag aatgggcatc tttccagaaa gtctggcacg attctacata gcagaactta    2820
cctgtgcagt tgaaagtgtt cataaaatgg gttttattca tagagatatt aaacctgata    2880
atattttgat tgatcgtgat ggtcatatta aattgactga ctttggcctc tgcactggct    2940
tcagatggac acacgattct aagtactatc agagtggtga ccatccacgg caagatagca    3000
tggatttcag taatgaatgg ggggatccct caagctgtcg atgtggagac agactgaagc    3060
cattagagcg gagagctgca cgccagcacc agcgatgtct agcacattct ttggttggga    3120
ctcccaatta tattgcacct gaagtgttgc tacgaacagg atacacacag ttgtgtgatt    3180
ggtggagtgt tggtgttatt cttttgaaa tgttggtggg acaacctcct ttcttggcac     3240
aaacaccatt agaaacacaa atgaaggtta tcaactggca aacatctctt cacattccac     3300
cacaagctaa actcagtcct gaagcttctg atcttattat taaactttgc cgaggacccg     3360
aagatcgctt aggcaagaat ggtgctgatg aaataaaagc tcatcccatt tttttaaaacc   3420
aatttgactt ctcccagtga cctgaagaca gcaggtcggc tttcaaacaa ttcccctaaa    3480
atcacaccac cccaacagat acatcaaatt ttgatccttg ttgatcctga taaattatgg    3540
agtgatgata acgaggaaga aaatgtaaat gacactctca atggatggta taaaaatgga    3600
aagcatcctg aacatgcatt ctatgaattt accttccgaa ggttttttga tgacaatggc    3660
tacccatata attatccgaa gcctattgaa tatgaataca ttaattcaca aggctcagag    3720
cagcagtcgg atgaagatga tcaaaacaca ggctcagaga ttaaaaatcg cgatctagta    3780
tatgtt                                                              3786
```

<210> 5571
<211> 6143
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5492)...(2924)
<223> similar to gi1944416 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5571
```
cctgttatca gagagtaggg cccccctcagt ttatcgttta gacatcgcta agtgaaaaac     60
agaagaccag gtttatttca tacaatgtta ttcacacatt tttcattttc taatttatac     120
ataatataca aagaagtgaa gttaaccatt atttcatatg aaccaataag agccaggact     180
tagacaaact ggtccagaaa caatccctat caaaaggaga cactcaagag taaagcctag     240
gtagttttgc ccaattgttt tattctgaaa tgtgattttc agattttacc aaaatttcat     300
gccaacttac taaaaggtaa aaattggggt gggcacccaa aatggcagac tgtaaaattt     360
ctacaagaac aggtactttt gtagagcagg cctgaaagta ttgggaagat tgggttgtca    420
gcactgggac aaatgggaat gagtatcagg accccaagaa gagggtttag tttctcaatg    480
tagtattctc tacttgtcat tttctaaaat tgcagagata atgcctgtgc caacagaggg    540
caaggatgaa ggaagactag gaattcaact gtacaaagac aggaaagcca ttaccaatct    600
ccaacatgac agctttgatc ctgaaaccat gggctgatac tgagaacaaa agttcgatac    660
gggccgaaat actctgaggt tggtaaagta ggaaaaagtg agacagcggc tttgtgtggg    720
ttttaaaaaa atgaaacaaa cacaaggcgt tgctgcagtg actgggacat gctgatgacc    780
cagagtgact atgagaagga acggtgacaa gtgtttggat ttaatggtct caccaaggaa    840
tgttgggtta gaaaagtaaa ataactcaac accaaacatg aaaaagtatg cctggcatcc    900
ccaaacttta tgccattatt tttaggttca taatatgaac aactaagtga taaaacctttt   960
```
```

                                  4087
```

```
agattccata ttgtgctcag aagattgcgt ttcttctgca gatctctagt aaaaaaagat   1020
ctcttccata ttcagctgac agaatagcat gttcatttta gttttcagca ctgaacataa   1080
gtgggtcaac ataaatgttt atacaaaata ctgacttcaa caaaatacaa agcactttct   1140
ttatctttca gaaactgaat atacacagca agtttttttc caaaatattt tcataggcaa   1200
aggattaaaa acgattttaa ttatacacat atggtcacaa ttttgcctta aaaagattgt   1260
tgggaaatgt acataaggcc gcttgtaaat gtacatcgtg ttactgttat gtcttatgtc   1320
cagaggaaaa aatgttatca tacagatttg ctcttacttg ggagtaggct attcaaaaat   1380
acagtactct tctgtacaaa gaaaaaagtc acatcacatt taataagatg aaaaaagcat   1440
tggcctccat ggtaaccaaa tatctcagtc caatactttc tattatgcac aataccctga   1500
cttcaattga aagtgatcca aattctagca ggtccatatt aacagtcaac aactatgtta   1560
taaaacaaaa tgatctcaca ataataaaaa gaaagctggt tcatacttct gaaaccatat   1620
aaagataaaa aatttttaaa aaatcactct cgatttggag aaataaattt acattataca   1680
acactatatt gccaggtcaa agagggcagg gacgtaaatg tacactaaaa tgcaaatgta   1740
tcccaaagag ataaaacaaa ttccatttac agcatgaagg tttacaaatg tacacctgta   1800
caaccaagga aagcatcact actaaattag caaggctttt ataataaaca ttgaaacaag   1860
atttcctttc aaagtgtaaa cttacatcta ttactacaca cacaatgcat atatttatag   1920
aaagcaaaaa gagctatctg aatatgtaat catgcttaaa tgctgagcta tcaaattcac   1980
ttttcagtgg ccccttttca tctctatctg gttcctactt tctgcctcta tgaaaaagca   2040
aaataaagct caacacttcc tcaacatgtc tgtaattcta taagcaaaac aaaatacaaa   2100
tttccactct ttctcattgc aaaccaaact gaaaagttaa taagtgactt aactttttcat   2160
ttagtgcact taattggaag tgtcaccatg attttgtatt taactcttac aacaattaca   2220
tatgtaagta tatacaatat ttctgtacat tgccagagac attttagggc agtaattgta   2280
ttaaaaccac atctactgta aataatgtta ggttctttc atctcaaacc actttattct   2340
tgtctactta ctcgttattt gcatgatagt ttgtgaatta tcaaaataca acttaactct   2400
ttttaaaata ttaataatat ttatgcagtt gattgttaat ctgttataaa aggtttcacg   2460
caaaggaaaa aaataaggac tataattcta tatacatctc tataaacctg ttgtgctatg   2520
gggttgtaga cctaccagac tgtgagccag tttattaaaa gaatactgta ctttttcctt   2580
taaaaactat ttttgtgact ttacaaggta aaaatttaca aaatatgtga cagctttta   2640
tttttgatac agttacatca tatacaggca ttctgtgctt tgccagcaat ccaatctgat   2700
aggtctccac tcagggctga atataattta taattcatcc cccccccccc aaatatacac   2760
aagaacctta aaaaatttac aaatggatga ataaagtcaa taaatagttt tgctttaaaa   2820
aaaaattgaa gattcatagt tgagttgtgt tttgataatt cacacacaaa aaaattcttt   2880
tcacatggtt aaattatctt ctttctcttg ctcctgtaat ttacagcatt ccatttggtg   2940
gtcctccaat aggtcctagg tccgggctat tcttcaaata atacttttcc aacttggcca   3000
gtatatgctt cccgtatgtg tatttgcgca aagtagtaat gtgaggtcga atcttgtgca   3060
tgattatctt tctctgagca ggttcagcca tatcaatcat cttttgaacc acgtaattgg   3120
catactggtc cttcatcatg gtgtataagg cactgtgagg accatcattc tggcagcaaa   3180
cctcgtcaat cagtaaagct ctctcagcac gggaggcatg agtaacacac ttttctacta   3240
cattgctggc aaatttgtgt tgactcaggg ctaaaacctt tcccctgatt tcggaaacaa   3300
ttttgctctt gtcttcaggt cgaccgtgtt ccagtacatg ctgaataaca taattgccat   3360
actgatcctg taccaactgc tctgtatgtt ggtggagttc ttctaagata ggtaaggtct   3420
gttctgcagt gcaatgctct aggatgcgct gaattactct gcagccataa ggatgagttg   3480
aaagcacaaa tacttgtccc ttgaaagcat caatgatgaa ctgtagtgac tgtggctgaa   3540
cacattcgat acattttgt acaacatggt ttccattctg atctttcaca catttgagca   3600
catgaccatc cagctccttt accatttcac taattacctg ctggtcagaa gaaatagatt   3660
ctaatgcttt ctgaataacg cggcagccat acatctgcaa ggctaagggt agaacatgac   3720
cacgaatacg agtagccagg gctaattttt gatccagact cccaaactca aaaaacttct   3780
gtataacata gttgccaaaa acatcagtca ttaattgata ggctgcttgc agaatttcat   3840
taaataccat ctgtcgctca gctggagtag ctctctctag tttttgctgt atgaatctag   3900
aaccatgctg gtcttgagaa aactcaacta tatgtccaat caagtctcta agctgaaggt   3960
ttgggaagcg gttgtttctg aaatcttcca ataatctact gcggccagaa ggcataatat   4020
cagacctatt ataccgaagc cgggaaggag gaaagagctg gctgctggag ctaaatagac   4080
tggaagtgct tgaagcactt cgatattttg cttctgctcc aggtgctgca gagatatatc   4140
gaccactacc atttgtcagt cctcctaaat gcaaactgga tgaggatcca tgtgatgaaa   4200
gtgatggcgg tggcgtaagt gaatgtcctg gagtttggct tggcagaggc atgcctattg   4260
gacttggaga ggaggaaaat cccagactat tgtaaaatgg ttgccctatg ggtgctaggc   4320
tgctactaga tcttttgtac aagtcagagc tagtagatag agactctctc cttgtggcac   4380
```

```
tactacttgc agaactgcca actgatgaac caaatccact gagggctgag cctatagcag    4440
cacccaaaga gttaccactt ccaaagccaa gagatgtact tccagggttg accagggtcc    4500
atggaggaaa attaaaggaa ctactctggg gagctattag tcaaaggaac tgcttccata    4560
aaatgaatta gattgcagat tattgcttgg ctgctgttgc tgctgctgtg gtggctgagt    4620
gccaattggc cgaaacagac catttgtgct gcctgtaagg ctacttgcag ttcctccagc    4680
tgctgctgct gctgcagctt gtgctgctgc tgaactaatt aaaacaggtg ttggagccat    4740
taaccgaact ggagctccaa ggccagtcct tgctccaggg ccaaccacta aggcaccagt    4800
ctgatcataa taggcagttg gagctagtac ttgatagcct ggcatgccag tagcaagacc    4860
ctgaccaaaa gccaatgttg gatttgctgc tgcagctgcc gcaagtgatt ctgcttgctg    4920
cccttgctga ccctgattgg gagtaagagg acgctgacct gctccagcac ggagaacctg    4980
ttgctgtcca ggctgagctt gtgatgctgc ttgctgactg gctgtgttat ttgccgcagc    5040
tgcagcttgc tgctgaaata agttggctgg atacaccccc catggaacgc cgtaatactg    5100
aggtggaacc actgctggac ctgctaatgt agctgctgca gccaatcctg ctgcagtata    5160
cggatcggtc cctggaggag cagcactaat aatgtatgga tttggcacaa atgcagctgg    5220
agcaaggcct gctgagaata caccagctat atgtggctgc tgagctgctg ctaatgcata    5280
ttgctgctgt tgagctgcag ttaactgttg aactgttagt gcattagtcc tctgaaagag    5340
ctgctgctgg gaattgtagt caaaaaggcc tacagtagct cctgaagagt ccattggtac    5400
ctgattacca ggatagtcaa actgtaagga ttccagacca acttgttcca tggcatccag    5460
attctgagtt tcaggatttg aaaattcttc aacaagtggt ttattagctg taggattagg    5520
aagaggcccc agtccttctg agggattagt attggggccc aagcgctcaa ctacttcagt    5580
tggagaggct tgacgacttc caggagtacg attaaaatct ttgcaatcgg catccattcc    5640
atttggcaaa cctctgccat ttattttaga atcatcatca tctccttgtt taagatccct    5700
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ctgtttcagc atctctagtg ccaaaatttc ccttcctaaa tcgagaatcc aatttatcag    5820
caggagaaga acttaataca tattctacca tgctcacacc aaggcctcca ctttctgatc    5880
gcggagacag tattgcattt acttcactgt ttccatgaaa accctgtcca gatcttctct    5940
gtaccataat aggctgggac attgaatggt gagaagctcc ccatgcagtc tctctccatt    6000
catcatcccc aagaaatatg cctttttgtc catcttttgt tgaatcatca ggttcccaaa    6060
acttttggt aggcaaaagc tctcccattc cccgagattc taatgcaaga gcttgaaaat    6120
catgattcat ttcatccaca gat                                            6143
```

<210> 5572
<211> 1098
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (402)...(848)
<223> similar to gi1335008 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5572

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gctaggaagc agactccagg atggaattta gtatgcagga tgttctgggg gagagccact     60
ggaaccagca ctcagggaaa gggggggaaga aaggatagga aggaagcatg aaagagaata    120
gggagaagtg aacagggatg cagagcgaat gccagtttca gccaactcca aggacagccc    180
tggagctgga atggccttta gagctgcccc atggtgacag aggtggccag gcttctatac    240
ccctacgtgg atcactcact gtgcttgggc accttgggaa agggcatggc tttgagcaaa    300
aggctctctg cagctgaggc aacccctaaa agggctgacg gctgaagtct gtctgctgac    360
cactgtccca gcagctgggg cttgttagtc cttcctcaaa gggggatcca gatggcatgt    420
```

```
cacagtgtct accgtaaatg ctcactgaat ccagctgcaa tgcaggaaga ctccctgatg      480
tgatcatgtg tctcaccctt tcaagctgaa agcaacagta cagacgatga gaccgacgat      540
cccaggacgt atcagaaata tggttacatt ggaacacatg agtaccctca tttctctcat      600
agacccagca cactccaggc agcatccacc ccacaggcag aagaggactg gacctgcacc      660
atcctctgaa tgccagtgca tcttggggga aagggctcca gtgttatctg gaccagttcc      720
ttcattttca ggtgggactc ttgatccaga gaggacaaag ctcctcagtg agctggtgta      780
taatccagga cagaacccag gtctcctgac tcctggcctt ctatgccctc tatcctatca      840
tagataacat tctccacagc ctcacttcat tccacctatt ctctgaaaat attccctgag      900
agagaacaga gagatttaga taagagaatg aaattccagc cttgactttc ttctgtgcac      960
ctgatgggag ggtaatgtct aatgtattat caataacaat aaaaataaag caaataccat     1020
ttattgggtg tttattaact tcaaggcaca gagccaagaa gtacagatgc atatctaggg     1080
gtattgtgtg tgtatata                                                   1098
```

<210> 5573
<211> 8527
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(8528)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (8438)...(432)
<223> similar to gi29865 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5573
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ttttttttttc agaactacta aacatttatt gaatgtgtaa ggtattaaaa acatttacaa      60
ttttgttaat aaaatgatgt tttatattaa tgtatgtatt atgctttgga atatgctaag     120
tcatgtagat aactttacat ttctttcaat aactttattc tttacaaaat atacaaataa     180
attaaanaaa acaattcaac tttaaaagg gattacccat atgcaagaag aaggtattgc     240
tatcacccat tctaaattcc cccaatgcat tcatttcctg ttcccttatc tttcaactct     300
agtggcaaag taaagactga attgaaatta agctggcact acaacatcat taccagggat     360
agacacataa acaaagtcat ttccacataa ggaatgctgg atctccagag aagtggacaa     420
agaggagtct actgagtttt gcactcnagg cacatccttg ccctgnagga ggcgtgccca     480
aggacctggg ctgagaatcc acactctctg ctcctgcatt ttgcacctct ggacaaaggc     540
ctaaacttga gttatcaaaa tagcgaactg gatgaggtga tggtaaagac tttgatcggc     600
tatcaaaaaa acaagatttt ggtgattcct ttggcacagg atcttgtaaa ttccgttcct     660
tgcattgaga gggtgtaatt tgtttctttt tagaagctgt tccagtcact ttaggagact     720
ttggagaatt ctcacaagtt acttgtttgt gagcctctct tttaagggtt ctttccttcc     780
aagttttgac ctcattggaa agatgctgat tattgcttaa caattcattc ttttgtttta     840
ttagctgttc attttgctgc tttaacttag aaatttcttt ttctagcctt atatgttcac     900
ttttcaaaat aagagctttt gtgtttttgta caatgccgct gccacctcca caagttaagg     960
gtttatttga aggctgagga tcagtatgtt ctgatatcac tgaggtatct tgggcctgtt    1020
gacttcttct gagatttttct ctcaatagcc ttataacttc cttttgatat tctacagtgg    1080
cttttgtagc actgatttcc ttttcaaatt ctttggcatt tttcatttttc tctaggtcta    1140
ttttcccaag cttcattttg agatcttcaa tttcttcttt atatggctta gctcctaaag    1200
```

```
caactttgtc ctgaagtact tgaattgtct cttttgtttt ttcaaggcat ttatttgatt   1260
catgaacttt ggcttgaagt tttgctatta tgtcattagt cacctcaagt tctttctgca   1320
tctttataat cttgctttcc ttatgcatag cactttcttt agcttcatgc agtgaatttt   1380
ccagctctcg aattttctct gtggttaact gtgtagctct tgatgtaaca tgaggattct   1440
tattgtcttg tgtggtagga ttaacctggg caccagatgc caaggaagtc ttcaatgttt   1500
ggtagttttt aaatagtttt tcatttttct cttttcagtga tttcaggtcc tgttcccact   1560
ctttggatat ggtagcactt ctttcctcaa actctgttga ttcattcatt atggcaatta   1620
ttctgttatt aaagaagtta ttcacttgac aaatcctatc attttctttc tggatgccat   1680
ttttaagctt ttctatatca aaacgagtat ttaaccactc ttccaaaaac tgtgtcattt   1740
ctttcctatt acttagtact tgttgaaatt cagtctttat gctagggaac tcactttctg   1800
agaaatcttt gagaatttcc tcaatatgta gatccatatt ctggttcaat ttgagatccc   1860
ttaattctct ggatggtaca tcacaatctt gttgaaggtg ctgtatttta attagcaatt   1920
ccttttgctt ttccacttca tcaataaaat ccatttcaaa tttattgatg cattcatgtt   1980
gttcttcttt tatttttgta acatagctta acacatactt cagtttcttc atgattctgt   2040
ggaattcaat ttccttctcc aagtcaagag acaatctatt caagcactca taatgatcat   2100
ccatctctga gtatctcttc aaaagctctt ttattctaga gcacttttct ctcaggcttt   2160
ccataaggtg ctgttgtcca tcacttagta acctttttc aggtttact tggtggttct   2220
gtcggtctct agctatcatt tcccttaagg ttgctatgaa ttggtccctt tccattttga   2280
gagattcttt tatcctcctt agctcatctc tttctttagc tacaattctt atttcttcaa   2340
ggctttcatg aagtttctta gtcaactgga agttatccat ctcacacttg catagatagt   2400
ttggctcaaa ttgcttcttc aactgttcca tttcattaat tttttatga ctcatattga   2460
catcttcttt cactctaagc agttgaagtt cttttttctg aagttcttgg atcttttct   2520
gtaattcatc ttttgattta tctaaatcct tttgaatgtc tgaaatttga attgtctttt   2580
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tcattacaga tttcatttct tcaaggtttt catgaagttt ctgagccaaa tttaaattct   2820
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tttcagacac tttttctgt gtctcattga catctttttt taacgtaata agttgatgtt   2940
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cctgtgcttt taaggcatca tttgagtgtt ctaagtcctt ttgcatattt gatatttcat   3180
ttgttttctc tgaaacaatc cctcttagtt tatcaatagt ttcttggtgc tccttcagat   3240
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gatattcttt ttcttgagat tctttcattt tagctacaat ttctttagtg ttttctttca   3600
gttggtctct ctctatctga agggcctcct gtactctttt catttcctct ttttccttaa   3660
tcataatttg tatttcttct tgactttctt gaagtctgtt ggtcaactcg agcatcttac   3720
tttctatact ttgtagtgct gaatccttgg ctttgcgatg ctccttgaat tgtttcagtt   3780
cattcacttt ttcctgaacc tcactaattt gttttatatt aagttgttcc tctttctcat   3840
aaatctcttg gatcttgttc tgtaatttat cattgattgc ttctaactgc ttttgaatgg   3900
ttgatatttc agttccttc tctgaaagat tcactcttaa ctcattaata gtttcctctt   3960
gttctttcag gcaacaatga gcaactttaa gttcctcttc agtttccagg tgtttagcta   4020
caatttcttt tatgttttct ttgagctggt cactttcaga ttgaagaact tcttgcagcc   4080
tctgtaggtc atctttctcc ttagctacag atttcatttc atcatgactt tcttgaagtc   4140
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tggttagaga ttttatctct tcctgacttt cttgaaattt ttcattcaac ctgagccttt   4440
ccatttctat tcttgccagt gttgttgagt ccttggttgt ggactgttct gttaataact   4500
ccagttcatt cattgtttcc tgagtctcac tgactttttt cacattaggc agtaactctt   4560
gttcctcatg aagcactggg atctcttctt gtaatttggt atgggatttt tctaagtcct   4620
```

                                        4091

```
gagtatttat tatttgagct gtcttctcag atacgcttct tcttagttca tcaatagttt    4680
cttggtgttc ttttaggtga atatgagcaa tttttagttc ttctttggtt tgtaggcctg    4740
tagcttcaat ttctcttata tatcctctaa ggtggtctct ctctgtttca aatgacttct    4800
gtaattcctt tagaactttt cttctttggg ttatagattt cacttcctca taattttcat    4860
taagtttctg agccaactca agcctctctg tttccatatg ttccaatgtc aattctttgt    4920
tctttaattc attctttaaa ttctctattt cattaatctt tttctgcatc tcactcatct    4980
cttcttgtac attaagaagt tgttgctgtt tttcttggag ttgctggctc tttttccttta   5040
gtttttcttc aacttctgcc agtctgtcac aggtcctaga aagctctcct tctttctttta   5100
tggcatggtt ctttttcttgt gcaactatct cttgttgctt tttaagttca tccccaagaa    5160
gtcttaattc ttcctggttt tcaatggtca tttcaatatt ttcctttagg tcagtcttca    5220
attgttcctt ttctgctata acactctcta acatttgttg gagttcattt ttctcctgta    5280
ttaaagaaaa tatcttcctt tgttgctcaa ttatctcatt atccttaaca tctgcagtta    5340
gtgtttgggt attttttagct tccaaatcct gttttttatc tatgccaacc atcttttgct    5400
gaaattcatc tttagtttct cctgtatttt cctccatatg caaattcctg gaaacttcct    5460
cagaaatttt cgattttagt gtattaattg tttcttgatg ttgtttcaga gactcaagag    5520
catttcgtaa ttgttcttga gtatctatat tcatgttaac agtatcgtga atatcacttt    5580
tgagttggtc cctctcaatt tgcaagcttt cttggagttg ttttagatca tcttttttctt    5640
gagttaaagt ttttacttct tctaaagttt gctgcagttt ctcagtaatc agtgttttct    5700
cccttttctac agtttgcagc ggagaatctc tattttctaa ttgttccttc agctgttcca    5760
tctcatttag tctttcttga acctcacgtg ttttctcctg aagttcttgg gtcttgtaag    5820
aaagctcggt cttcaaagca cccaaactcg aatcaaattt ttgggcttct ttagagagat    5880
taactatttc ctgattcatt ctctcattct cctcaaggac catcttatac ttttgctcaa    5940
agtccatatg aagggttttg aaattttgga attcttgatc agtgctttta taattcgact    6000
gtgtagttgc taggtcatct tttgtttttcc caatttcttc aagtaaacct tgaactctac    6060
tctccttatg aactacttca gaaaacaatt tatctttttc tgatgttatt atatggagct    6120
cttcagattt gtcttgtatc tctttcctca gcctttctac ttcagaaggt aaagatttca    6180
attctgaaag caaaatgact tcttcccgca aagcttcatt ttcttcaact tctttattta    6240
gttctttctg aagatcagta atctttcctt ccaattccaa attacagagc aaatcttttg    6300
gaactttgcc atctataagg gaggtgagtt ttgttatctc attaaaagca gattgtaatt    6360
ctttctccag atcaacttgc attttctttt ttgcctccaa ttggctttga tataactgaa    6420
tatcattttc catttgcttg tatgtagttg caagttcttt cattttctcc ttcaactcca    6480
gattttcact tctaagaaag gctgattctc tcttggcatc aagggctaca gtttcagcat    6540
caaacagagt ctgcttcatt tgttttgggt cttcaatgct ttccaatgag tatgacaagt    6600
ccatttttat attttctagc ttttgagagt ctatgtattc ctgtagcttc ttaatctggt    6660
cttccttttc tctaagcagc tctacttttg aactgagttc attctcaaga tcttgattat    6720
atacttctcg atgcttaact aaaattcttta agttcgaaat ttcatgaatt agttgcatct    6780
cttgatcttt tttagttttt ctttctagag cctcaaattc atccaaatca ttctttttctt    6840
ttaatttcaa ttccatttct tctttttctg ttcgtagttg ttcatagtct aataccagat    6900
tatcatagtc agcacgaagt gagttcaact cactttctat attctcctga tttagtagct    6960
ttgttgctgg attccattct atctcactta atgtatcaag agtgttactg aaaacatcag    7020
actctgaaca gacagattca tcaatttctc gtaataaatt tatagaaagc ttatgtgttt    7080
ttgttgttat atttgttggt atattaaatt gatctgcata gtttgagttc ttcattttgt    7140
taattttgcc aaggcaccaa gtaactcttc gtttcttttt agcctttaat tcctgttgca    7200
acgtgaggga agaagaggtc accagcatcc gtgttaagtt ttcaattttc tcattctgta    7260
ctttctgaag caaatctttt tcttccaaaa gttgggccaa ttggtctttt tccattgcct    7320
gagcccgcgt ctctaaagaa acctcctcta attgtttttt aagatccatt atttcttttc    7380
tataccttttt caggagagct tcatcagttg atacctcatt aacataagga gtattcttca    7440
tatatttagc agtactggca aactggagag cagtaagagt ttcatcaaaa gatactggag    7500
taattgtgca gataatacgt gtctttggat ttcctcccaa ggaattctga agaattcgtg    7560
ttaacttgct atctcgataa tttatgaaac caccaacttg tccatcacta agtttcttga    7620
tcacttgtcc caaaataaat aagcttcgat ttatattaca gccttccttg agccgcacac    7680
ctgcagcgcc tgtttgagca gctctttcac tgcctgcaag atcaaccaaa ttcaaatggg    7740
ataccttaac agatccttca caattagaag gttcacccctt ctctctgctt tccaaaatca    7800
tcctaaagat ggtatgagaa cgactgcttc tttgattcat ttttgtttct ccataatgcc    7860
tgctcttttc tccctttgta atccatttca aagccatttc tgatgtatat acaacttctt    7920
ctgtgagatc agcaacatac acattcctat tgacatcttc tcgaataatt aaaggtttca    7980
ttttttgagt gccacagagt aaatctgtaa tggtttcatt gtatatttcc atgtaagata    8040
```

4092

```
cacgtaagag aaattcccta tccaggaaaa cttcttaaat tttttgggaa aaatgtccat      8100
gaaattgccc ctggggtata actcccaaat gatcttctga acccatcatg gtatatgttt      8160
ttcctgaagc cagtctgtcc atagggcaaa tatagtacca ttgtagcctt gtatggcaga      8220
atcgatgatt ggtgctgcta ttggcttcat acacattttt gggagtttca ttaccatgaa      8280
ggacacgatc aaaattgaag gatttacttc catcaactgg ataaatgaca ttattgtggg      8340
ttttccagta aacttgggca gtttctccaa gtgattcttc tctgctgttc agcggccgca      8400
ctcgcacgca gacggccacg gctccttcct ccgccatcct atcaggctga actggtccca      8460
ccaaaatggc caggaccctc cgcggccggc acttcagggc tcacaggccg ccccgccttt      8520
aaattta                                                              8527
```

```
        <400> 5574
tgattacgga agaaccagga gtttggcgtg accatgggga agcaaaagaa aacaaggaag        60
tatgcgacca tgaagcgaat gcttagtctc agagatcaga ggcttaaaga aaaggataga       120
ttaaaaccta aaaagaaaga aagaaggat cccagcgcat taaaggaaag agaagttccc       180
caacaccctt cctgcttatt tttccaatat aatacacagc tgggcccacc ttaccacatc       240
ctcgttgata ccaactttat caacttttcc ataaaagcca aactggactt agtgcagtca       300
atgatggact gtctgtatgc caagtgtatc ccatgtataa ccgattgtgt aatggctgaa       360
attgagaaat tggggcagaa gtatcgagtg gctctaagga ttgccaagga tccaagattt       420
gaacgattac catgtacaca caaagggaac ctatgcagat gactgcttag tacagagagt       480
aactcgccat aagtgttaca ttgtggccac agttgaccgg gacctgaaaa gaagaatccg       540
taagattcct ggagttccta tcatgtacat ttctaaccat aggtgagaaa tttcccttgg       600
agaagggaat agaaatatat aattgatatc aattgaaaat gaggataagt gataaggtta       660
taaaggattt gaaagaaatt attgtatcaa atgtttacat agttatattt gaagaaatga       720
gacaaagcaa gagcaagagc aaaagagaga gataggattt aaggaatgag gcaaacattt       780
aaattgttag agtaagatta ctggaagaaa tagacgtatt gttttaaata aaagcagtaa       840
tttaaatcaa gctaatcttt ttggccagaa atacctgttt tgaaagattt ttttttatta       900
acacttcatc tgagaaatgg aaagcttatt taaaaaaaaa                           940
```

<222> (407)...(687)
<223> similar to gi1710216 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5575
tttttttttt ttgtattcat tatctgtgtt ctcttgtatc tccctgagtt tctttaataa   60
cattattctg aattttttc aggcatttca tagattttct tttcattgga tctgttgctg   120
gagaattatt gtgcttcttt ggagatgtta tgtttccttt ttcatatttc ttgcatcctt   180
atgtgactat ctgtgcctct gacataacag tcatttcttc caattttatg gattggcttt   240
tatatgggaa agacctttc ttatagctct atctacagtg ttcattggat atcacacttt   300
ggctttgatt ctgggtgggt acagtggtat agtctgcata tgattccttc agctgtaatt   360
ggcatgagtg gtgcctgtga gtcattcagt ggcttagact gcagtgtttt tttttgtggt   420
tgttgagatg gagtctagct ctgtcaccag gctggagtgc agtggcacaa tctcagctca   480
ccgcaacctc tgcctcccgg gttcaagcaa ttctcctgcc tcagcctcct gagtagctgg   540
gactataggc acgtacaacc atgcgcagct aattttgta tttttagtag agatggggtt   600
tcactatgtt ggccaggctg ctctcgaact cctgacctcg tgatctaccc gcctcggcct   660
ctcaaagtgc tgggattaca ggcgtgagcc accacacttg gccagactgt agttgttatt   720
ggaggctgtg gtgaggcttt gctgaggatg gggatgccag gaagtcttgt ccttcagcat   780
cagtggtagc ggtggtggac caggtgtgtc aatactaggg actgtgggca gtgtttgtgg   840
gcactgatga tagcctgtct gcgtgggcca atccctgggc ctccaggtgg ctcctttggt   900
tgctggcagt ggcagcactg ggccaagtgg gcaggtgcac cactgggctc ctgggtggtg   960
tgcgtggcag gctgatctct agttctccag gtgacatatg caggttctgg tggtgggtag   1020
gcaggcattt cctcaggcct ctcagtagta agtgtgagca ctagctctgg aggcagatga   1080
gtcaatctcc aggcccccag atggtacatt caggcaccag catattccta tgcatttcta   1140
gataaaagta tttttcagaa aacctgagca tatgtcctat taatacaact taccctcatc   1200
agctctgcat gagaagaagg cgtaattccc tcagtagaac agtcagaatg gaatcacaga   1260
cttgtttga gccagtcact ggtgagggg ggtaggataa aatgataagc tcagaatcta   1320
aaccttagac tagggaatgg caaactttt ccataaagag gcaaacggta atatttagg   1380
cttttgtgt agataacctc ttttgtagtg acacagtggt gccatcgtag cctaaaaacg   1440
tatgtagaca atggataaat caatggactt ggttttattc cagtaaaact taatttatac   1500
agtcagaggg ccagatttgg cccttggtct atagttggcc aaccctgttt agagcagtca   1560
aaatttattc cctggggctg ggccaacttt ttctt   1595

<210> 5576
<211> 2435
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1450)...(683)
<223> similar to gi5420389 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5576
tttttttttc attcacacac ttagcatatg caattttaat caaccaaaag aaaatcccaa   60
atgtacaagt gaaaaaaatc caaactgttg acacaggcct aactaatatc agctactttt   120

4094

```
atgtacagct gtatagttca aaaaagctat cctatatgta tatacaaaag ttgtttatac    180
acaggtctgt acataagggt ctatacattt atttcctcag aacccttagg tgccacctct    240
tggtgaggac accaacactt cattcacata tcttacaaaa aagaaagacc atttccagga    300
ttgacaacat tgtgcatcct gtattcagac aatgtacact ccactcgact ggttaagatc    360
cttccatcat aatgcggacc acaccagatg catgggttcc accaaacagc ttcacacaga    420
gtgctccaaa gtaaaagccc ataaaccaac ccgagatgaa gcagggtcct gcccagtgtg    480
ccaccacagg tccgggctta gttgagtctg cctgccctgc tcactgtcgg tattccaatt    540
catctacact gataactttg gcgggcatgg agggcagggg ttgctgtagc acatctgagc    600
caaaccattt ggcaaggccc acaggggagc tgctcctctg gctggggcga tgctccagct    660
gggagtgcat gtggggcagg cctgaccggc tgggcacgtt ctgaggggtt gtctgaacgc    720
tgacagctgc tgcatgggaa ccagagcctg gaggatgcag aactgagcgc tgtagctgct    780
gttgcaccat tgccagatgc agaggtgttc caggacgagg gtttaagaga gggtgactag    840
cagcaggtaa agggtaaaag ggctgaccca ggatggggcc agatattccc tgtaaatgac    900
tcaagtccat cccaggagga agcacaccag tttggagcaa acttggaaga tgctgtggat    960
gtactccctg ggccagcatc ctctgtacca accctgggtg aagctggtga gcaggcctaa   1020
ccatagggac atgggggaca aggggaactt ggtggacagg gcggagaaaa ggtgttgtag   1080
gaactgggga tgccaaggtg ggtgtttttc tcccagttgc tttaggtcga taatcttgtt   1140
ctttggtgta acggttggcc tgggacagtg gggtggaaca cgaagacctc tgtaatgctg   1200
acagtttgga atttgtagtg ggagaagagt ctcgatcggc actgggtaca gagctggatg   1260
acaggaggtt ttcttcactg gccttctgag tatcctcttt actgtcacca agagctgctt   1320
ttccagatgc tggctcctcc ttgcttttct ctttgctctc gtacatctta cgaatcactg   1380
aggtaggggt aaaggaagga gaaagcatgc ttgtgatgga ggcagcaggg gcaggggaag   1440
aggaattccc tcgatgcacg ggtgctggtg acttggtcac tcgctgttgc ctgtttctga   1500
atccatctct ggttctgtcc acctgtggtt tgccaaaacc aggctggtag aagtttgctg   1560
cctgtacagc aaggtcatgt ggcaaggcca gcccttctaa agctgcctgt tgcaactcca   1620
gctggctcat ctgctgggct gtgatggggc tcatgggttt gcgcatgcct tggaatggat   1680
ctccgagtag ctgctgtggt cctggtgtga aaccaattgg tgatggtatt cttgggcgaa   1740
ggtagtcagc tgaggctgct cgagtttgaa acacctgtga caagggagga gagggtgctc   1800
tttggcccag taaagatgtt gtaggctcca agctccccat aaggccactc agaagattgg   1860
aagaagcagg tctctgaact ggttgaccca gaagttcctg caggatgttc ttaggacag    1920
gctggcctgg aatctcagca ggggacatca aatggctttc aaggtttcgg ctgactttgg   1980
gctgagaagg caaagtccca cttgccttca ttgtgctcac tagcttgttg aacgcagtca   2040
tgtctccgtc tttcttcagt tgtcgattgt tggttacggc actcaaggtc tcttctaggt   2100
gttctgccat gaagggagtt gaattcttca cttgctggtc aaccttcaag cccttcagac   2160
ctgcttctac ctcctccact gaaagcacaa cccctgaatg tgagctttct ttaagttttt   2220
ctttatttgc agaaaggctg gaaagaagag gtttcaaatc cactttggct ttctgtagca   2280
tttctaaaat atccacttta ttttcagcat ggtcttccaa tggtatagga gcaaagtaat   2340
tccccgagtt ctgtccagga gagaggatgg cttgctccag acctgcaagt ctctctagct   2400
cttcatgtgg tgttgaccca agactgctgg atcgg                              2435
```

<210> 5577
<211> 1640
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (35)...(1461)
<223> similar to gi182923 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5577
```
cggacgcgtg ggattctttt aatcagagtt agtaatgtgg acagtacaaa atcgagagag      60
tctggggctt ctctctttcc ctgtgatgat taccatggtc tgttgtgcac acagcaccaa     120
tgaacccagc aacatgtcat acgtgaaaga gacagtggac agattgctca aaggatatga     180
cattcgcttg cggccggact tcggagggcc ccccgtcgac gttgggatgc ggatcgatgt     240
cgccagcata gacatggtct ccgaagtgaa tatggattat acactcacca tgtatttcca     300
gcagtcttgg aaagacaaaa ggctttctta ttctggaatc ccactgaacc tcaccctaga     360
caatagggta gctgaccaac tctgggtacc agacacctac tttctgaatg acaagaaatc     420
atttgtgcat ggggtcacag tgaaaaatcg aatgattcga ctgcatcctg atggaacagt     480
tctctatgga ctccgaatca caaccacagc tgcatgtatg atggatcttc gaagatatcc     540
actggatgag cagaactgca ccctggagat cgaaagttat ggctatacca ctgatgacat     600
tgaatttttac tggaatggag gagaaggggc agtcactggt gttaataaaa tcgaacttcc     660
tcaattttca attgttgact acaagatggt gtctaagaag gtggagttca caacaggagc     720
gtatccacga ctgtcactaa gttttcgtct aaagagaaac attggttact tcattttgca     780
aacctacatg ccttctacac tgattacaat tctgtcctgg gtgtcttttt ggatcaacta     840
tgatgcatct gcagccagag tcgcactagg aatcacgaca gtgcttacaa tgacaaccat     900
cagcacccac ctcagggaga ccctgccaaa gatcccttat gtcaaagcga ttgatattta     960
tctgatgggt tgctttgtgt ttgtgttcct ggctctgctg gagtatgcct ttgtaaatta    1020
catcttcttt gggaaaggcc ctcagaaaaa gggagctagc aaacaagacc agagtgccaa    1080
tgagaagaat aaactggaga tgaataaagt ccaggtcgac gcccacggta acattctcct    1140
cagcaccctg gaaatccgga atgagacgag tggctcggaa gtgctcacga gcgtgagcga    1200
ccccaaggcc accatgtact cctatgacag cgccagcatc cagtaccgca agccctgag     1260
cagccgcgaa ggcctaaggg cgcgccccgg accggcacgg ggtacccagc aaggggcgca    1320
tccgcaggcg tgcctcccca gctcaaagtc aagatccccg acttgactga tgtgaattcc    1380
atagacaagt ggtcccgaat gtttttcccc atcacctttt ctcttttaa tgtcgtctat     1440
tggctttact atgtacactg aggtctgttc taatggttcc atttagacta ctttcctctt    1500
ctattgtttt ttaaccttac aggtccccaa cagcgatact gctgtttctc gaggtaagag    1560
attcagccat ccaattggtt ttaggtcttg catatcagtt ttattactgc accatgttta    1620
cttcaaaaag acaaaaaaaa                                                 1640
```

<210> 5578
<211> 2020
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (268)...(1419)
<223> similar to gi4220483 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 5578
```
tagtcgattg tcacgtggca ggccagggga aggcgggact tccggcggcg aggtaaattt      60
tttttttttt tttttttttt tttattttct tccggtggct ggtctccggc ggccccgtcc     120
ccgactgggc cccgtgcctc cccgcccccg cgtccccccg ccgcaagacc gagccgccac     180
catgaagaaa ttctttcagg agttcaaggc cgacatcaag ttcaagagcg cgggacccgg     240
tcagaagctc aaagagtccg tggggggaaa gacccacaaa gagaagccca accagccagc     300
ccccaggccg ccccgccagg gacccaccaa tgaggcacag atggcagccg ctgctgccct     360
agcccggctg gagcagaagc agtcccgggc ctggggcccc acatcgcagg acaccatccg     420
```

4096

```
        <210> 5579
        <211> 861
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (745)...(191)
        <223> similar to gi505096 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters



        <400> 5579
tttttttttt tgcaaatcag cagatttatt gaggccacca gcgccactgg ggagcagcgc     60
gcgtgtgcgg agggggtggg gcctccccag ggtccatgaa gtgctcggcc cttcccaggc    120
atgcagtcct gcgcagccgg aggggggatgc gcagggactg cgctgtgggc gccgatggtc    180
agccatggtc agtctgtccg cagccagctg cccttctcct ccacctcctt ggtcactacc    240
agcagcacct cgcacaggcc ctgggccagc gcagccgcca ggaaaggccc ctgactccgt    300
cctcaatccc ccagggcctt cgggcgcccg cagctttgga gtccaggttg tagtaagaca    360
ccgttccaac ctggcgcagg gccacctaag atgccgccgg cgcagcggca gtgacagcag    420
ccccagcgac acgggcgagg gcaggttcag gatcagcccc agtacctggg gcagggccag    480
ctgggacagg ggcctcctcc tgtcccacca cacggcggcc aggcccagcc cctgcagagc    540
ggccatgatc acattgacat catagttgcc ggtgcccagg aggctgcgat gagggttcag    600
```

```
ccgggagtct  ggggccaacc  tcttgcagat  ctcatcggca  gcctcctggc  taaagagctg      660
ctgctgcaga  acgttgttga  gggcgtggac  agcacacagc  tccaggcgct  gccgttcgtg      720
gtacacggtg  ggtgggctcg  gctgtgctcc  cggggcctgg  gacatgccgt  cctcggctcc      780
tgcccgcctg  cctctccgct  ccaccgagcc  aggggtttcc  gcatcccctt  cctgggcggc      840
ggctcgcgat  ctagaactag  t                                                   861
```

```
        <210> 5580
        <211> 6204
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (6085)...(2968)
        <223> similar to gi3800881 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters
```

```
        <400> 5580
tttttttttt  ttaactgatg  ttttaaattt  aagtcattta  ttttacaaac  agagactacc       60
tattatactt  aagacattgg  gttagatctt  tgccaaagac  atggtttagt  catacctaat      120
gtaatccatt  ttttaacttt  ccatattaat  ttaattttta  attcattttt  ctttatgctt      180
gcttcagggg  ctacatctgg  gactgaatag  cagcatatgg  cccaagggct  ggtgggtttt      240
gccactcatg  ctctatactt  ttagtctttt  ccagagttga  gtatagcagt  cacgtatcgt      300
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taacaccttc aataaaactt gctggacacc aacagcaaat gccttcagaa atacttcagc 5220
aaattcatta tactccttgg aaacattgcc agggcttcca tatctttcaa aaagtcttgc 5280
taaaatatgt aaggcccact tcttgcattt ccaccatggt aactcaggtc gatcatcttc 5340
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4099

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atagaagatc ttgaatatct gtttctggat gaggacagac tgatcagact ggtcagaaag    5520
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taccctgatg agctcaggag aatggataat ggcttctaca atattttctc gaatacaatg    5820
gcgatcttct tctggaatag tataagggga tatatcccct ggtgctgttt ctcgatcagg    5880
ccaatactgt gttatcatat ttttcagata gataacacct gcctgtctca caggtaaatc    5940
cagctgttcc gacatagtaa tctggagcag tgttgagaca aaattcagag acttgtgtgc    6000
ttcattgagc tggcgctccg cggcctcacg cagggctggg tccatggtgc cccgcagggc    6060
ctcgataatg gtgttggggt ccatcgcagc gcggactcgg tcaaacccgg ggctcgggtg    6120
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caaccggcgc gaaaggaaag agcg                                           6204
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<210> 5581
<211> 5235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (290)...(2497)
<223> similar to gi5163089 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5581

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ggcggtggcg gtaggtgggt ggccagcgac tggcaacgcg gtggcttaga cgcgcgagat    180
ccggccaggg tcagagtact gtaagattga tgttaaaggc atggtgttca ccccacttca    240
tcagcgtaca taagttatct cttcttttgg acccttattt tatgccataa tgcaacaagc    300
tttagaacta gctttggatc gtgcagagta tgtcattgaa agtgcccgac agagacctcc    360
taaaaggaaa tacctatcaa gtggaagaaa atctgtattt caaaaacttt atgacttgta    420
tattgaagaa tgtgaaaaag aacctgaagt taagcagaaa ttaagaagaa atgtgaactt    480
tgttagagaa gcttgttatg caagaagact tttgtcatgt ttagtgggtc aatctatacc    540
ccaggaaatg agggatattc tctgatgctc aggggaaaaa acggatcaga ttccgagacc    600
attcgactgc cctatgaaga aggagagttg cttgaatatt tggatgcaga agaattacct    660
cctatttggg ttgatctcct agaaaaatct caggttaata ttttttcattg cggatgtgtc    720
atagcagaaa tacgtgacta caggcagtcc agtaacatga aatctcctgg ttaccaaagt    780
cggcacattc tcttacgtcc aacaatgcag actttaattt gtgatgtaca ttcaataaca    840
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aaaattctta aggcaggaaa ttgtgtagat atgtggaaac ggagtccctg taatttggcc    1200
ataccttctg aagtagatgt ggagaaatat gctaaagtgg aaaagtctat caaatctgat    1260
gactcacagc caacagtctg gccagcccat gatgtaaaag atgattatgt atttgaatgt    1320
```
```

                                   4100
```

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gaagctggta ctcagtatca gaaaacaaag ctgaccatct tgcagtcgct tggagatcca    1380
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ccatcacact cgtccacaga tgatcattca aattggttca ttattggatc aaagaccgat    1500
gctgagaggg tagtcaatca gtaccaagaa ttagtccaga atgaagccaa atgtccggtc    1560
aagatgtcac acagctccag tggctcagcc agtctgagtc aggtttctcc agggaaagaa    1620
acagatcaaa ctgaaaccgt gtcagttcag tcttcggtat tggggaaggg tgtaaaacat    1680
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4101

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<210> 5582
<211> 945
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (828)...(340)
<223> similar to gi6007807 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5582
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aaagccgtca ggcgcgtgat caaaggaccc ggggaaatgg gccgggcctc agcacccgga     900
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```

<210> 5583
<211> 4326
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<400> 5583
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aaatttcagg tgccagaccc aaggtactca caggaaactt aaatgtgcaa gccaaagcaa   660
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aaaaaa                                                               4326
```

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gatggagggc tactacagac cgagacaaca cttggactca gttcatatca gcagaaaagt    180
atatctctct accggggggaa ttgcaggccc atacgatttg agccaccaat gctggatttc    240
catgaacaac cagttggaat gccaaaaatg gaaaaagtct acttacataa tcctagttct    300
gaataaacga ttactttagt atcaatattt gctacaacat cacattttca tgcatcattt    360
tttcaaaata ggaaaattct tccaggagga aatacatcat ttgatgtaag ttttttccttg    420
caagagtagt aggaaatgta gaaatactt tatttattaa tacatctaat catgggggtat    480
```

```
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aatcaggata cattttttacc ctgctttta tgccttccac atcatccatg cacattgata      1440
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gcttttttaga ttactttgta ttgccccccca aaatagagga acgtttcata gattttggag      1560
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cctaagcacg tggttcttcc accttccttt ccagggaaaa tagttcatca aagtttaaat      1980
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<210> 5585
<211> 1991
<212> DNA
<213> Homo sapiens

<220>
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<222> (358)...(1133)
<223> similar to gi2911882 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
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tttgcagcat gagaaagccc caaaagctct gggatttacc tccactttag taataatgaa    1860
tattttttag cattagaatg tgttatgtca tttgaattaa ttttgactac actttggctt    1920
gggagaggaa ttattttaaa tagacattgg tacttttga acttgatagc taaagattct    1980
aaaatgcatg t                                                         1991
```

<210> 5586
<211> 1029
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (154)...(967)
<223> similar to gi34203 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5586

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<210> 5587
<211> 341
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)...(123)
<223> similar to gi28547 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5587

```
ggcacgagcc caccatggcg ctgtgtcctg ccgacaagac caacgtcgta ggccgactgg      60
ggtaaggtag ttgcgcacgc tggcgaggat ggtgcggagg ccctggacag gatgttactg     120
ctcttcccca acaccaggac ctacttcccg cacttcgacc tgagtcacgg ctctgcccag     180
ggtaagggtc acggatggaa tgaggcgac gcgctgacca acgccgtgtt gcacgaggac     240
tacgtgccca acgcgctgta cgacctgagc gacctgcact cgcatcatgc ttcaggagga     300
ccaggacatc ttcaagcgac tactgcactg actgctggcg a                        341
```

<210> 5588
<211> 1911
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1609)...(641)
<223> similar to gi5225320 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5588
cttttttttt ttgttagttg tttttgtttt taatttgtct ccaataagca atgtcttctg   60
ccccatccag catgggaagt gggtcccacg tgaagggggc cccaccaccc cactttggga   120
agctgaaggc tagagacttc gggagccccc cccggctcaa gactcccccc tacgctgggt   180
tgtgggttat attcagaggc ccgacaccca cactgggta ggttaggtat tgggtttact   240
taggccacag gccccccggg ggcagggaga cagagtgggg ggcccgaagc tccctgtctc   300
tggaagaagt taaaaagttc ttggggtagg ccctgggccc cgtggggggc agttatgaga   360
tgaagggagg ttactcctta agcccaggag tggttaagag acagtggggc tggtagagat   420
gcctgtttaa agccttggcc tctaggaggt gttagagatt tgctgggtt ggggccccag   480
ggttgctggg acccccagtt tttggggaag ggagctgtaa gagattgggg gatgttctga   540
gctccccaga caagaactgc tggttaagag ggggccaggc ccggttgggg ctcagctgtc   600
cctgaggagc tcggcatccc gcctgggaga tgcagctgtc actggggttt ctccctctct   660
gttgtcctgg cctcgtcctt ggcaggtggc ggggacttct tgggggaagc tgaagtgctg   720
gggttgggga cccccgcccc cgactgggca tctatgctgg cgtgcctcct tgcggacaag   780
gtcctccagc tccttcttcc atccaaggag ctcagcaagg gccaggcagc cctggtcgca   840
ttcacccagc caggccacgt ccctgcaagg aggtacccat gaccaggagg aggtccacct   900
tcaggaagtc tgactgcata caggagaaga aacgcgctgg gaggctctca ccaaaaaaga   960
cgattatcag gcttcaccag gctctgacag tcttcacact tgggcgtcac ctcagagaag   1020
atcttctctt tcatccagct tagcgggtat tcgtgccggc agctggcgct gacgcagtgt   1080
gatgtgtaga aggtgccgtg cgcctccaac aaagtcctcc tgttccagcc cggctattcg   1140
ctccagggta tctatgttcc tgcgtgtagc agcgcaggag tagccccttg tccttcagca   1200
ggcgcatgaa gtagtgacag atggttggct tgaactgccc caggatagag ttccttggcg   1260
agggcgaaga agggttccgg atgtttcttg aaatagctga atctcaaaag atggcctctg   1320
ggttagggaa agatggtcac ttctctaggt tgttcaataa gaggccggtg gatggagaag   1380
cgaaaagtcg gggatgcctg cggatgtgga gattccagct cccaccaaac agatgactct   1440
gcgacagcgt tcgctctgca tgtaccgggc cacccctccc aaggtcagct cgtccagcag   1500
acgctccttc tggctgccca ggctgagcgt ctgggagaat aagttccgca ggaagtccat   1560
gtctgcttct ccaccagcgg ctcctccctc agagtctgaa tctgagtcct ggaaggggtg   1620
gggtggagtg gccaggcccg agaggtggga ttagggaggg aggagagggg gtgataccag   1680
gtttggggaa aaggctgtgg caggaaggtg gcctgaggaa gtgcggggtg gtggagagac   1740
tgcactgggg ctagctccag ggctctggga caggctgccg gggttggagt cctggccatg   1800
cccgtcccca ggagcaagac ctcatgtgag tggctttgct ttgctttttct tttttgagac   1860
agtgtctcgc tctgttgccc aggctggagt gcactggtgc agtcacagct t   1911

<210> 5589
<211> 1612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1613)
<223> n = a,t,c or g

<220>
<221> misc_feature

<400> 5589
```
aggaggcggg cgggcgcggt tctttccgga aggattgaat ctcctttagc cccgcccgcc     60
tccgtagctg cctgaagtag tgcagggtca gcccgcaagt tgcaggtcat ggcgctggct    120
gctcgactgt ggcgccttct gcctttccga cgtggagccg ccccggggtc tcgtctccct    180
gcggggactt cgggcagccg cgggcattgc ggcccctgtc gattccgcgg cttcgaggta    240
atgggaaacc caggaacttt caacagaggc cttttactct cagctttgtc gtatttgggt    300
tttgaaactt accaggttat ctctcaggct gctgtggttc atgccacagc caaagttgaa    360
gaaatacttg aacaagcaga ctacctgtat gaaagcggag aaacagaaaa actttatcag    420
ttgctaaccc aatacaagga aagtgaagat gcagagttac tgtggcgttt ggcacgggca    480
tcacgtgatg tagctcagct tagcagaacc tcagaagagg agaaaaagct attggtgtat    540
gaagccctag agtatgcaaa aagagcacta gaaaaatgaa tcaagttttg catctcataa    600
gtggtatgca atctgcctta gtgatgttgg agattatgaa ggcatcaagg ctaaaattgc    660
aaatgcatat atcatcaagg agcattttga gaaagcaatt gaactgaacc ctaaagatgc    720
tacttcaatt caccttatgg gtatttggtg ctatacattt gccgaaatgc cttggtatca    780
aagaagaatt gcctaaaatg cctgtttgca actccctccc tagttcccac cctatgagaa    840
ggccttaggc taactttcac agggcagaac aagtggatcc aaacttctac agcaaaaact    900
tacttctttt aggaaagaca tacttgaaac tacacaacaa aaagcttgct gctttctggc    960
taatgaaagc caaggactat ccagcacaca cagaggagga taaacagata cagacagaag   1020
ctgctcagtt gcttacaagt ttcagtgaga agaattgaga acttttcaga gaagatttat   1080
gaaatagcta ataaacattg ccttttcttt taattctaaa cttaatatat gaactataac   1140
tgttctacgg ctttttaaat gttgtgacca tttaaccgtg taaatataaa atattctagg   1200
cttcttcaca aataataggg taaaataaat aatcgccata agagtggtag aaataaatct   1260
ccatggctca ggcaaagaga ttattttgca tcctggatac cagcaatgca aaatggtatg   1320
agatttctaa ggattgatca cattgggatg ggagatcaag caaagaaata tttgtagagg   1380
aggggaaatg gatctatagg ggatatacag ggggatggat tttcaaattg gattgattct   1440
aagttgaaat cttgaagaga aggtgtggtg acagtggtta ggatgttgtg ggttcctgac   1500
ataaagtagt taaatgatat atcttggagc taacctgtga aataaaaaac taagtaagga   1560
gatgatgtat tgcgnccgct ctagagtatt caacctaaca aagagtgact tt           1612
```


<210> 5590
<211> 2065
<212> DNA
<213> Homo sapiens

<220>

<400> 5590
```
tttttcagag acaaggcttt tattcactgt atgccttggc atctcctctc acaccagaaa     60
gtttaaaaga aaaaacacag cgacaaggat tcacttgggc cattttggaa cccatttata    120
```

```
ttgtgggtgt tactctgggc ttcatctagc cccatactag cctctgagac tgcctcagac      180
cgtctgaaca ttcatggcct tcccttgggc ccaaatgtag ctgtcccagt gtaaaaggag      240
tcatagtctg gagtgtaaga cccagggatc ttacaaaaag cctccttggt ccttaggctc      300
tgggtagtag gaaaaccagg ttgtgtttgt acccctagtc aaaaactttg atggcaattc      360
tcaaaaacac gtttcggatg ggtgctgagt ggtggggtag agtctcccct gggacagatg      420
ctgctcagag acttcctggg gcaatttggc tctgctgtca gggaggaaga tctcatctgg      480
ggatgtgccc gggatccccg ccgggcgaat ggactcccag ttgccacccc cggggaacac      540
gttaagcatt gtttcccctg ccccaggaa tgaaggtctt gcccatctcc caaatcaaca      600
ctccttaaaa aggacttcca actggcaaaa aatccctcg gccctcggt gacccggtag      660
cacttctcaa gccgtgcact cggccttgct ggtggggttg ctcagggcaa agatgatagg      720
ggcgctcgtg gaaggaggcc atgtccctca gaatctgctc cgtgaaggc ttctgcgatg      780
gcagcaacac ctatgatggc tgtgggcttc accagcctca ccacctcctc cagggagttg      840
acttcaggat gggtcttggg caaacatctc cttttcatgg ttcaggtggt ctctcccctg      900
aacaatgagc cctttaaaag tccaccatcc cagatctttc ttgtggcctc ctgccttcgg      960
tacaccttct ttcctctagg gccatgacaa ggaggtgggc aatgccccat agctgcctcg     1020
cctgcacctt ggaaaccaaa cacgtgattg gaaagcttgt tcttggtgat tcgcagagca     1080
gccaagatcc ctgccacagc aacggaggct gtgccttgga tgtcatcatt gaacatgcag     1140
tacttgttac ggtatttgtt gagcaggcgg aaggcattgg cattggcgaa gtcttcaaat     1200
tggatgaggc aatttattcc aaacttgtct gtcacagcct gcatgaactc atccagcaag     1260
tcatcgtatg ccttcccgtg cacgcgctgg tgtttcaggc cgatgtacag agggtctctg     1320
agcagctcct cattgttggt gccgacgtcc agcagcacag ggaggcactg ctgcgggttc     1380
accctccgc atgccgtgta cagggccagc ttgcccacag ggatgcccat gccgtagcag     1440
cccaggtctc ccaggcccag gatgcgctcc ccatcagtca ccaccacggc cttaatattg     1500
tcttctggcc aagaattcag cattgttgca agatgacctt tgtcatgaat ggtgatgaac     1560
agtccacggg gcctgcggaa agtcaggcca tagtgctgac aggctagccc cacggtaggc     1620
gtgtacacga ttggcatgaa cttctccacg tccgaagtca gcactcggta gaagagcttc     1680
tcgttacggt cttggagtgt catgagaatg atgtacttgt ccaggtcact ctgctgccgc     1740
tcgtaatatc tcatgattcg gaggagctgg acgtcctggc tcagaaagca gggcgggatt     1800
aggccgtgga ttccaagctg cagcctttct tcaagggtaa aggccatccc cttgttgaga     1860
tgagggttcc tggtgacatc gtatccgcgc ttcttcaggg gcacagggcg cgccgggcca     1920
ggcttggagt ggcagccttg ggcgggcgcg gtgggtgtcc agcgcgggag ggcgccgcag     1980
gccccggcccg gccagggagc cagccgcgtg cctgtcccca gcgcggcacc catggtcctt     2040
ggcagacctc ggtcctctcc ttccg                                          2065
```

<210> 5591
<211> 1126
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (194)...(916)
<223> similar to gi2477514 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5591
```
ggcacgagcc acggtccagg ctggacacaa ccaaaggcgg aggacccgtg gcccacgaag       60
ctcatctttg aactgtcccc gccttctccc gccttgactt gtgaccctag gccctttggg      120
gcgcctctga cccagctagc cagatcccgg acccaaacca tgttccctgt gaaggtgaaa      180
gtggagaaat cagagctgga gatggccaaa gcccggaacc aactggatgc tgtcttgcag      240
```

4111

```
tgtctgctgg agaagagtca catggacagg gagcgtctgg atgaggaagc tgggaaaaca    300
ccctcagaca cccacaataa ggactgctcc atcgcagcca ctggcaaaag gccatctgcc    360
cgcttccccc accagcggag gaagaagagg agggagatgg atgatgggct ggctgaggga    420
gggccgcagc gatccaacac atatgtgatc aagctgttcg accggagcgt ggacttggcc    480
cagttcagcg agaacacgcc actgtaccca atctgccgcg cctggatgcg caacagcccc    540
tctgtgcgcg agcgtgaatg ctctcccagc tcacccctgc ccccgctgcc tgaggatgag    600
gagggcttca gaggtaacca acagcaagag tcgttgatgt gtacaagctt gcccgccaac    660
ccacaccccc gggggccaac cgaagaatgc ctgcagattc ccgcatccca tctccacttg    720
cagccttgag gatgcagggc accccttgac ggtggagccc ttttgagccc gagccctcac    780
cctccacact catctatcgc aacatgcagc gctggaaacg catccgccag aggtggaagg    840
aggcctctca tcggaaccag cttcgttact cagaaagcat gaagatccta cgagagatgt    900
acgaacgaca gtgatgttcc caggtccccc cacaccagta aacatccccc agctccaaaa    960
aaaaaaaaag ggggggccct tttaagggga ccaattttta ttcccggggg ttgggaaggt   1020
aaaatttttt ttttggggcc ccaaaattaa attccggggc cgggtttttta aaacggggggg   1080
gggggaaaaa cccgggggtt ccccaattta atccctttgg gaaaaa                   1126
```

<210> 5592
<211> 1964
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1741)...(1871)
<223> similar to gi5921397 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5592
```
tcatgggaag cctatttgca ggaattggtt ctgacttgga gaaaaaaaac acaacttctt     60
gaaaaggtaa aatagcttaa agcatttaat atctaaacaa atcaatctgt taatagtagt    120
cacaaaatat gcttaatata gaaacccaca ttcatgtttt taagaaaaaa gtgtaaattg    180
tattccacct caaaacataa attaacccgc ttaaagaatc ttcagcggtc aaagtcatgg    240
tgaattttaa acaacttcag agtaaaataa caagtacttt atactgcttt atatctaaaa    300
aatgcttaca acttctcata aaaatagttt gaagcaacta ttttttcttt tattttttaa    360
cagacacgtt caacattacg ggcaacattt ttaaaacctt aagctttaca gactttcaaa    420
cattcaaata ctggggtccc tttcctttga tgtggtttat tcagctagaa aagaaaacat    480
ggtagacaac ttaatacatt ttcaccaaat ttgaaagtag tacaaaaatt ttaggactct    540
accgaactac acatcgtacc taatgtatca ttaaaaatag aagacagtat tttcttcagc    600
aaataaaaca gcatactaat atgctgctaa tgcatacctt ttaatgtgta ctgtcattca    660
taaattattt acaactgcta ctgtgtgaag agaactagaa tgtaaatttt ctgcaaaact    720
ggaaaaaaag caatacaaaa tttgtgaaag cctgtgtttt atactataca aaagtcagtt    780
tttctcttca aataccagat attgtatgca gtgatatttt ggacacatta tagtaattct    840
tgaggatgtt ttagtgctgg aggtaagttt acaggcctcg attcttcatc aaggagtact    900
agatcttcta tttcactgcc tctgtatttc cttttacata tttttaccac cacctttttc    960
ttgagaaata acttcaatgc ttctcttgat gcaactgctt ttgcattttc tttgcttttt   1020
ccacagccag tgcccaaata cacagacttg cacctcaatt cacaaacaat actttcttga   1080
gagctcttat tttgaggcag atctgccaat tcttttagtg ggacaaaaaa tacatccagt   1140
gttgctttca gagcctcaat agctgcattt aggagctctc catgattcac attgggacta   1200
aagccaccaa cagctaccaa cttccatgcc accgttttat atagtctatt gaaaaaaggt   1260
tgcttctgtt tcacatcttc attggttaac ttgcaagaga atttgacaga actctcactt   1320
```
```

```
gactgtgaag tactttaga aggcaactgt gaggtgctag tctgagaact actcttagaa    1380
gccaactggg acacacttgc taaggaagtg cttttggaaa ccagagatcc actggtctgg    1440
gagctgctct tggaagctag tagtgatgca gctacctggg aagtgctctt ggaagttagc    1500
agcgatgtat ttgttgaaga gctgctcttg ggagtcagta aggatgtgcc tgatgaggaa    1560
ctgtttttag caactgatga tgaaacactt gcctctgaac tagttttgga agttaaccca    1620
cttgaagctg tctctgaact aggtttggaa gacaatagtg gcaattctac ctctgagctt    1680
cctgaggagc ccaacaaggg cacctcgatc tctgagctgc tttgagaagc tgaggctgaa    1740
gagccttcca aagcactctt tttaggtgat ccactttgtt gtctagaatc agtggattgg    1800
gtcatgtgac tattcacact ggatttcagc aaggaaacaa atgatgcaga accgtgttta    1860
tctggagctt ctgcttcaga agctttccca gatcctgccg ttgttacctg agaggaaacg    1920
ctgctgctgc tttggctgga aacagatcga tctctgtgcc gaat                     1964



         <210> 5593
         <211> 5276
         <212> DNA
         <213> Homo sapiens

         <220>
         <221> misc_feature
         <222> (644)...(4326)
         <223> similar to gi4589640 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



         <400> 5593
tttcgtggtt gttgtagtaa ccggggaagc agccgtcggc ggctgccctg agccttcctg     60
gggaaggagg agggaggtag gcgcagagcg cggtccacgc ctgctcgccc cgaaccatgg    120
gaagatgaga caggtaaacg cctgcgcccg cgcgcttccc taccctaggg aggagcattc    180
ccgggtccgg gctggcgcct gcagcaggac ttcccgctca gagcccggga gtagctgttg    240
gcttccgggc gcgccgcgtt gaatcgcggc tgcggggtcg tcccgtcctt cccgggggga    300
gcatctgcgg acctacgtgg gattggggtg agctgggggt ggggctgaga agcaaattcc    360
tttcgggaga ggagtctcct tatgaatctg tgccatccaa attgcttgat ccagtgaatc    420
tgctaggaaa ggtctctgag gcccccgtct gctgactgca tgacaaaccc taaaggaaat    480
gccaatcgtg atggcccggg acctggagga aacagcatca tcctcagagg atgaggaggt    540
cataagtcaa gaggatcatc catgcatcat gtggactgga ggctgcagga gaattccagt    600
tttggtattc catgccgacg ctattcttac aaaggacaac aatattagag taattggaga    660
acgttatcat ttgtcttata agattgtacg aacggacagt cgcctagtac gcagcattct    720
gacagcccat ggatttcatg aagttcaccc aagcagcact gactataacc taatgtggac    780
aggatcccac ctgaagccct tcttactgcg caccctctct gaagcacaaa aagttaatca    840
ctttcccagg tcttatgaac ttacccggaa ggaccgactg tacaaaaaca ttattcgaat    900
gcagcataca catggattca aggcttttca catcctcccc cagaccttcc tcctgccagc    960
tgagtacgcg gaattttgta attcatattc gaaggaccgg ggaccttgga tagtaaaacc   1020
agtggcatct tcaagggggc ggggggcgtct acctgatcaa caatccaaac cagatctccc   1080
tggaagagaa cattttggtc tcccgttaca ttaacaaccc cctgctcata gatgatttca   1140
agtttgacgt gcgcctctat gtgctcgtga cttcctatga tcctcttgtc atctatctct   1200
atgaagaagg attggctagg tttgcaactg tgcgatatga tcaaggagcc aagaacattc   1260
ggaaccagtt catgcatctg acaaactaca gtgtcaacaa gaaaagtgga gattacgtca   1320
gttgtgacga tccagaagtg gaggattatg aaacaaatg gagcatgagt gctatgctta    1380
ggtacctgaa acaagaaggc agagatacaa ccgcattgat ggcccatgta gaagacctga   1440
tcattaagac tataatctct gctgaactag ctattgctac tgcctgtaaa acctttgttc   1500
ctcatcgcag cagttgtttt gaactctatg gctttgacgt gctcatagat tctactctga   1560
```

                                    4113
```

```
agccatggtt gttggaagtg aatctctctc cttctttggc ctgtgatgcg cctctggacc   1620
taaagattaa agccagtatg atttcagata tgttcactgt tgtaggattt gtgtgccaag   1680
atcctgccca gcgggcatca actcggccaa tttatcccac ctttgagtct tccaggcgaa   1740
accctttcca gaaacctcag cgttgccgtc cactctctgc cagtgatgcg gaaatgaaaa   1800
acctcgtggg ctcagcccgg gagaaagggc cagggaagtt gggtggttct gtgcttggtc   1860
tgtcaatgga ggagatcaaa gtttacgaa gggtgaagga ggagaatgat cggcgaggtg   1920
gatttattcg catatttcct acatctgaga catgggaaat atatgggtcc tacctcgagc   1980
ataagacctc aatgaactat atgctggcaa cacgcctctt ccaggacaga atgactgctg   2040
atggagcgcc agaattgaag atatagagtc tgaattcaaa ggccaagctg catgctgcac   2100
tttacgagag gaagctcctg tctctggagg tgcgaaaacg tagacgacgg agtagcagat   2160
tgagggcaat gaggccaaaa tacccagtga ttacccaacc agctgaaatg aatgttaaaa   2220
ctgagacaga gagtgaagag gaggaagaag tcgcattaga taatgaagat gaagaacagg   2280
aggcttccca ggaggagtct gcaggatttc ttagagaaaa tcaagccaaa tatacaccct   2340
cattgacagc tttggtagaa aatacaccca aagaaaattc catgaaagtt cgtgaatgga   2400
ataataaagg tggacactgc tgcaaacttg agactcagga gctagagcct aaatttaacc   2460
tgatgcagat tcttcaagat aatggcaatc ttagcaaaat gcaggcccga atagcattct   2520
ctgcctatct ccagcatgtt caaatttcgc ctgatgaaag acagtggcgg tcagacgttc   2580
agtgccagtt gggctgccaa agaggatgaa cagatggagc tggttgttcg tttcctcaag   2640
cgagcatcaa ataacctcca gcattcactg aggatggtat tacccagtcg acgattggca   2700
cttctggaac gcacaagaat cctggcccac cagctgggtg actttatcat tgtatacaac   2760
aaggaaacag aacaaatggc tgaaaagaaa tcaaagaaga aagttgagga agaagaggaa   2820
gatggggtga atatggaaaa ctttcaggag ttcatcagac aagcaagtga ggctgaactg   2880
gaggaggtgt tgactttta tacccaaaag aacaagtctg ctagtgtctt cctggggact   2940
cactctaaaa tttctaagaa caacaacaat tattctgata gtggggcaaa aggtgatcac   3000
cctgagacta taatggaaga agtgaaaata aagccaccta aacagcaaca gacgacagaa   3060
attcattctg ataaattatc tcgatttacc acttcagcag aaaaagaggc aaaattagtt   3120
tatagcaatt cctcctctgg tcctactgct actctgcaga aaattcccaa cacccatttg   3180
tcatctgtta caacctctga cctctctcca gggccttgcc accattcttc tttatctcaa   3240
attccttcag ctatccccag catgcctcac cagccaacaa ttttactgaa cacagtctct   3300
gccagtgctt ctccctgcct acatcccggg gcacagaaca tcccaagccc tactggcctg   3360
ccacgctgtc gatcaggaag tcacaccatt ggtccctttt cttccttcca aagtgctgca   3420
cacatctata gccagaaact gtctcgtccc tcttcagcaa aggcaggatc gtgctatcta   3480
aacaagcatc attcaggaat agccaaaaca caaaaagagg gagaagatgc ttctttatat   3540
agcaaacggt acaaccaaag tatggttaca gctgaacttc agcggctagc tgagaagcag   3600
gcagcgagac agtattctcc atccagccac atcaacctcc tcacccaaca ggtaacaaac   3660
ctgaatttgg caactggcat cataaacaga agcagtgctt cagctccccc aaccctccga   3720
cccatcatca gtcctagtgg cccgacatgg tctacacagt cagaccccca agctcccgag   3780
aatcactcca gctctcctgg aagcaggagc ctgcagacag ggggatttgc ctgggaagga   3840
gaagtagaaa acaacgtgta cagccaggct acaggggtgg tcccccagca caagtatcac   3900
cccacagcag gcagctatca gcttcaattt gccctgcagc aacttgaaca acaaaaactt   3960
cagtcccggc agctcctgga ccagagtcga gcccggcacc aggcaatctt ggcagccag   4020
acactaccta actccaattt atggacaatg aataatggtg caggttgtag aatttccagt   4080
gccacagcta gtggccagaa gccaaccact ctgccacaaa aagtggtacc acctccaagt   4140
tcttgcgcct ccctggttcc caaaccccca cccaaccacg aacaagtgct cagaagggca   4200
acatcccaga aagcttccaa agggtcctcc gcggaagggc agctgaatgg actccagagc   4260
agccttaacc ctgcagcctt tgtgcccatc accagctcta cagatcctgc tcacactaaa   4320
attatgaacc acaaacacac agagaaacaa cctgttcacc actcctgggt gcatgattga   4380
gggtgaagca tccaccagca cttcaagggg tccatagtat tttttttttt tgctgcctca   4440
aagtccccaa agccttcgag cagaagtggc agtagatggt tgccaatcag ccaatgcaga   4500
ctttcactgg gacaacaaga aagcagatct tctgggtttt gatggaactt ggcagtgggg   4560
acattcagct gatgcattat atacccgtc agagcacact tgtatctttt aaccttcccc   4620
tttgccccca tgcccccca aactgcctta ggtccttcct ctgtcccttt acctgctgct   4680
gcacagagat gatataaaag aggctctttg gctatttgca ttttgcttcc tcttctttc   4740
cagattacag tatgaagctt tattttcttt gtacaagctt aaaatttcaa catcatcatc   4800
cgcccaaagt tgttcctccc ttttcggagg atctaggggg aaagaggagc attcatcaca   4860
agtttcctag agagaggaga caaatcggtg tgccattgac aacatgagcc agggtaaagg   4920
cacccttttg aattactgat ttcaaagatt aataaagtaa ttctattttt attttctttt   4980
```

4114

```
ttttcccttt actaatttcc caacaatcaa tattcacaaa caggactgaa gtagaaccag    5040
tttttattt tactttgtgg ctgtgcaatt ttttaaacat tttagaaatg tgagctgtaa    5100
agagatgttt tatttttaca tttcatttca gcagatggtg ggtccaggct attcccaaag    5160
gcagctcctg cacctgggga gcgggcatgt gcagatgtct ccgttatcag ccctcgacag    5220
gcaggctcac tcacagcgtg ggcctccagt ggcttgagcc ctgtatccag ttgcat       5276
```

<210> 5594
<211> 3281
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (141)...(2294)
<223> similar to gi4469187 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5594
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agcgggaatc gatagcatac tcagtgtcgt ggaattcgtg acttctgaca gctctctcca      60
tggaaggagg cggcggccgc gatgagcctt cagcctgccg ggcaggggac gtgaacatgg     120
atgaccctaa gaaggaagac attcttcttt tggccgatga aaaatttgac ttcgatcttt     180
cattgtcttc ttcgagtgca aatgaagatg atgaagtctt cttcggaccc tttggacata     240
aagaaagatg tattgctgcc agcttggaat taaataatcc ggttcccgaa cagcctccgt     300
tgcccacatc tgagagtccc tttgcctgga gccctctggc cggggagaag ttcgtggagg     360
tgtacaaaga agctcactta ctggctttac acattgagag cagcagccgg aaccaggcag     420
cccaagctgc caagcctgaa gaccctcgga gccagggcgt ggaaagattc atacaggagt     480
caaaatttta aaattaacct ctttgagaaa gaaaaggaaa tgaagaaaag ccccacgtct     540
cttaaaaggg agacatacta cctgtcagac agccccttgc tggggccccc tgtgggtgag     600
cctcggctct tggcctcctc cccggccctg cccagctctg gtgcccaggc ccgcctcacc     660
cgggcgccgg ggcctccgca ctctgctcat gctttgccca gggaatcatg cactgctcat     720
gctgcaagtc aggcagcgac tcagaggaag cccgggacca aattgctgct gcctcgagcg     780
gcctctgtta gaggaagagg catccctggg gctgcggaga agcccaagaa agagattcca     840
gctagtcctt ccaggacaaa aatcccagct gagaaggaat cccaccggga tgttctccct     900
gacaaacctg ccccgggtgc tgtcaatgtg ccggccgccg gaagccactt gggccagggc     960
aagcgggcga tccctgttcc caaacaagtt ggggctgaag aagaccctgt taaaagcacc    1020
cggctcttac agcaattctg caaaggaagt cctcctcggg ggcttgtttg gagcggggca    1080
tccagtgcgt gcactcccca accagtggcc aaagctaaat caagtgaatt tgcaagtatt    1140
cctgcaaatt agctccccgg cctctgtcca aacatcagca agtccaggca gaatgggacc    1200
cgccatgctg cggccagctc tggcctgcag gccctgtggg gtgcatcctc ctggcaggcc    1260
aagcgggtcg atgtttctga gctggcagcg gagcagctca cggcaccccc cctcagcatc    1320
ccccacccaa ccccagactc cggaaggtgg cggcccagtg gctgaactcc agttgcgctt    1380
ggtcagaatc ttctcaattg aataagacta gaagtatcag acggcgagat tcctgtctaa    1440
attccaagac aaaggttatg cctactccta caaatcaatt taaaattcct aagttttcta    1500
ttggtgactc cgccggacag ctcaacacca aagctttcgc gggcacagcg gccgcagtcg    1560
tgcacgtcag ttggcagggt cactgtccac agcaccccgg ttagacgctc atctgggcca    1620
gcaccacaaa gcctgctgag cgcatggcgt gtgtcagcct tgcccacacc cgccagccgg    1680
cgctgctctg gccttccacc gatgaccccc aaaacgatgc ccagggccgt gggctctccc    1740
cttgtgtgtg ccagctcgga gacgttcctc tgagccccgc aagaactctg caatgagaac    1800
tgaaccaaca agggagagca acagaaagac agattccagg ctggtggat gtgtcccctg     1860
acaggggttc tcctccttcc cgtgtgcctc aggcacttaa cttttctcca gaggaaagcg    1920
```
```
                              4115
```

```
attctacttt ctccaaaagt actgccacag aagtagctcg ggaggaagcc aagccgggtg    1980
gagatgcagc ccctagtgag gctcttcttg tagatatcaa actggaacca ctcgcggtca    2040
ctccagatgc tgcaagccag cccctcattg accttcctct catcgacttc tgcgataccc    2100
cagaagcaca cgtggctgta ggatctgaaa gcaggcctct gatcgacctc atgacaaaca    2160
ctccagacat gaataaaaat gtggccaaac cttcaccggt ggtgggacag ctcatagacc    2220
tgagctcccc tctgatccag ctgagccctg aggctgacaa ggagaacgtg gattccccac    2280
tcctcaagtt ctaagccgaa ccaaatcctt tgccttgaaa gaacagccct aaagtggttt    2340
tcaaccctca gaaacaagct ttaggctggt cgcagtggct tacacttgta accctagaac    2400
ttgggaggct gaggtgggcg gattacttga gcccaggagt tcgggaccag cctgggaaat    2460
atagtgaaac tcctgtccct acaaaaaata caaaaattag ccgggtgtgg tagtgcatgc    2520
ctgtagtccc agctacttgg gaggctgaag tgggaggatg gcctgagctc aaggagatgc    2580
aggctgcagt agggctgtga ttgtgccact gcactcaagc ctgggcacca atgtgagaac    2640
ctgtcttgga aaaaaaaaa aaagaaacat gttttagtag aagttttatt tgaaaaagaa    2700
aaataagcat aaatatattc ccagtgcctg ccgagggtcg cctgcagcga ctggggccac    2760
cacggaccac ccaaggcctc tgcttcccgc cgccaccctc ctcgctgcca ttctctgggc    2820
tggaatgtga agcctcagtc actctaaatg aagaattttc ttttgaatgt tttgtatgta    2880
aaatagcaag tggctatttt taaagttaag tttgtataaa tagttagata ttctagattt    2940
acattaaatt gtaaaataaa tggacttatt gaagcatatc ttgattttta agcttatctt    3000
gattttcaaa catgcatagc tattttatc actctaatca gtaaggctac tatctagact    3060
cgaatgcttt catacaagtg attttcaaaa attagtcaat aaaaattgat gtcagtgcag    3120
ggcccaggcc cgcccccaga tacactagtt tctaggtctg gggccagcct agtaattgtt    3180
actaggcaca caggtgatgc tgactcgatg gcctgagaca caccccttga gaagaagctg    3240
ctctggggag acgagggtat gagtggaaag aggatgggcg a                        3281
```


<210> 5595
<211> 6233
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5734)...(1911)
<223> similar to gi5305331 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5595
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ttttttttt ttaaaaaatt tacccatttt attgatgcat tgcaattgct ctacatttta      60
ccatattatg tagaaaatac tgaaaataca agctactttg taaaaccaaa gacaaacatt     120
gaatccaaag ataaactatg ttttacacaa tggacccttt tcccatagtt agtattaaat     180
tttaaatatc tatttctttt gttaaaatga ttattttaca tactccccta aggtacatct     240
ggcattacaa acataggctc agtaattctc aaaaactatc tgtttctagg agggcttgtt     300
ggttaaaggg aaggcggcac aacccaaaaa aggggggaa ggccaaaaaa agtttaaat     360
cggcacacaa taacctagca tatcaaatac atttattaaa agtagggaat tcccattgca     420
atatcaaagg attcaaaggc agaaatacta acattacata taatgtacat ataatgtact     480
gctacatgta gtgagattat ttttcaagct gaattgaaac ccccccttat ataaagttta     540
gcaacaaaca accatgtaga catgctgccc catttatcag ttaaaaaaaa aaaaatcaaa     600
ataggaagca ggctcgggcc actcctgtca ctgagaggca atttcatttc ctatcctaaa     660
acaaaccatc tcaactagtg aatttttgca taataatgct gaacaaaaca cacattactg     720
tgcttgcctg gctaagggca gtcaagctta gccccctag tggaggacaa tggatgagca     780
atcacaaaag caggctcaga atggccagaa ctgtttgaaa tggagttctt attcctgggg     840
```

4116
```

```
ttggtatttc agctgagcac tgaaaataat atcacctcct gggagctatt aaaaactctg    900
gagtgaccaa gtgtccctat gagcccagag tggctacact gaacccttct ccgcttcttc    960
tctcacccgg aaaggaagaa gttggaaatg ccaagttctg agagaggact taaagcctta   1020
agctggtttg aggtcaggtc actgtgaccc aggccagctg ctcactaaat tcaccaggct   1080
tcctcccttc ctgtcagggc ccacagggct aaccccaggg acagaatcta aagccacagt   1140
gagcacatac atacacattc agcagacaca ggtggatttt tatgctggaa aatcggaaat   1200
gccagtttgc agactaagac tgaaaaatct ctagtttta aagccacaca ctgctaggca   1260
agtgactaag gtaacaatac aagctcttgg tattatcctt ttctgtggag tttagactcc   1320
tatcttaagt ggtatctgct tattggactg gggtgcagga atgggatttg gtttttcttc   1380
ctgcatctca tttcttacaa aaacaacaaa tcttgtccct tacagaaaaa agacaaggaa   1440
caaaaaattt gtcctttaga aactagacct gtgttccaac aagaaaatca gaatgtgctt   1500
ggcaaaaagg agacacaaag atcacacatg ttgaccagaa aactgtatga cactagtgac   1560
agaaattata caaactgctt ggctatcttg accaatatag tgctgaaaac acaactcaat   1620
ataatgattt taaaaaataa agaaaacaca acatgttcct ggtaggctgt acggactacc   1680
tgccccatct tggaagccct tactccttac aatgaagaaa ctccaaatac tttgacagct   1740
cctcggtgtt caacctggta cagagctggc tgaccaggct ccatgaaatc tcccatctcc   1800
atcctgcacc tccttgacac catctctatc tacacagaac cagtcctaaa attatatctc   1860
aaatatatca ttttcaattc agatggaaca cacctgtatt ttaggattaa tcttctttcc   1920
ccaaatcctt tatgggcagg aatgtcccca tccccagtac cttctacttg acccagatcc   1980
atgcaggagc tgagagtaca aggacaattt cacagcttga agggccccaa gactatacaa   2040
gctgttaaaa aagaaacctc aaaagcctca atgactcaac aggctttggt tccttctcta   2100
tattcttcac cagctaagaa acctttctgt gagttccttg tcaccagcgg caccacaaaa   2160
cttctcctca tagtatgggg acatggtaag caatacaaca ggctctttgg tataaacaca   2220
tctgttaaca tgttttttttc aacaagcaaa tattttacta ggaatgtcaa ctatgtgcag   2280
gaaggactgc cccatgggaa aaggaaaaaa aaattcattc taaaagtgat tgcacatact   2340
ttaaagaat gcatatttaa tattggcttg actcctctca cctgcttcct gaattctcac   2400
agaagcaagg tagcaacgca cagtgagaga gccacatggg gaaaatgctt ctgtgagaac   2460
tcagccgaga atccaaaatg gaaaggggta gaggtggtgg taaaggagaa aagctgctgt   2520
ttttatttt caatgttggc agggaaactg agaacaatgc attacacaat acagctacta   2580
atcctgttct gataaatccc ggtgaacaac ttagggtcca cggggggcttg ctggtccatc   2640
ctaaggcaag ctcactgtaa actctattaa ccactacatt atcatataag gcactacaat   2700
aagggaagga ggaagaaagg gaaggaagag acacacactg aaaaactcct caccagacac   2760
acctgtgcaa aacaattcca agggtctcct ctccttgcag gcaatgcccc tgctcattca   2820
gcactacagt aatatgctct aatataattg caattagttc acatacattc caacaagtat   2880
cagttcattt tggtttaaat acaatggaga catcaatcca tctccgggat aacactggag   2940
gatcacatac acactaagta cacaattcaa gtgtaatcac tacacatttg attacaaata   3000
acattttggg ttagcaggaa aaattgcttg ttatatttttt ctaatcaata tgtacatatt   3060
taattatgta aaatattaaa acaccaccat tacaaaactt ctaaatatt tttaaattca   3120
gtaataaatt tttaaaatat ttttttgcaat tcctacatgc ccttattata taagtcttaa   3180
taagagagca ttcaatttgc tgctggcata caaaggaagc tactttgaag tataaaagct   3240
atacccaaga aatgttctta tctggtttca ggttttttta gctttctccc caaacaaatc   3300
acataaaaca gaagggagag atgagcaaaa cagaggtgta ttactgaaaa ttcatactaa   3360
tctttaggca aagctcatca atgccagtat ctcataatag acagagattt tgcatataat   3420
aaaaccacca ccaccatgta ataataacca ccttaatggc tttttcgata aaaaaatta   3480
agctgaatca gagagagaaa gactttaaa aaataatta aaaaagaatt catggtgctt   3540
catttaaaaa gaatacttgg tgttttcacg cagatatgga ttctctcaca ttaagttacc   3600
agcaaatggt gagctgcctt ttaaacacta ctttataaca aacacaggag caattgagag   3660
aatctcaata gtaacacaga gtaatacgta accagttttg caaaaataac aattgcccat   3720
taagtataat atgacattaa aacaaaactg aaactctgta agtttaaatg tccaataaac   3780
aaaagggaga ttgtgtaagc cgctttttaaa ataaaatagg caagtctgag tttataaaca   3840
aacaaaaagt aattttttttt ttttttgtcat cagatttcaa ctccttctat cagcattttt   3900
cctgaccagc aatcacaata acacaaaatg aaataaagag gggcttcact tgtttttaaa   3960
agcatttata gaaatcaagt cagagagaca aaatattttt cagagggtaa cttcagaaca   4020
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actgtcacaa aaataatgaa tttaaaaata gggcaaactt tgagaagact acaacaatgc   4140
agtcaacact gagacaggtt cccccagaga aaaaccttct gcttcagtgg gcccctgcag   4200
aacaagttgc tggctaagaa atttcaagag ggtaaaggag gatctctcca tagcccaata   4260
```

4117

```
ttaagaacgc agggccagga gaaggtagcc atgattcctc ctccctcatg ctcaccaact     4320
ataagtagga atactggctg atcttggtag gactcagcgg gtatccagtg taaattgttg     4380
agcctcggga agacccaatg taggattggg tggcaaactg gtgttggtac tgagcagggg     4440
ccacgctggc agaagtgagg aggctgggcc caacactgac agggacctgg tgcaccaaag     4500
tgctagggtg agtggtatag gctgcagcat gccttgagga accctgtggg gagaaaagat     4560
gagcaatgga gctggttgag cccagtgcag cagcagaagt cggggcagca tacgtataca     4620
gatgagcctg gcttggcagg tgagcagggg ccggggcaag gtgtgggtgc cctgtcgagt     4680
gtagcgggct gccatgctgg aaggtgtagg gggcttggga gagaggggcc acaaacgcct     4740
gctgcctgcg gggggctggg ttgctgcttc tctcctgtga ggttggagcc gccgatgact     4800
gctggttctg gctaagattg agtggttgtg ctgcactggt cccccgcgt tgagctcgat      4860
accctgtggg ggtgatacag catccagatg actgcccact cactgaagcg actggcttag     4920
tcttattgct caggagacct gaggcctggg ttgctacagt gcagtcacca agctgagttt     4980
tcagtggagg cacaatgata gtgcgggtgc cagtgccatc tgccacaact ctgccaggcc     5040
cctccaaaac ggatccacta ttgcctcgga gagcactcag ggtatcagtg gaataagggc     5100
tgctcaaaga agagtcagag tctggagaat cattgacagt gacataactg atgacattag     5160
accttggctt cagtccagag ctactgggct tgtatttgtt gtcctcttcc tcatcagtgt     5220
cacttcggat agtgatgaca ctcacaggag ggctgggagt atctggaatg atgatgggct     5280
gatgctgatc ttggacaggg accaaggaat tataagaaga tgtggtgcgg aggggactgc     5340
tcccaaccag agaatagact tgggaaggca gaacatctag agaggacttg gaagagactg     5400
gagctgactg ctttattcct cttcgaaggg agggaactgg attgttgttg tctgacaaca     5460
tgggcaacac caacattcag aggctgagca gtggccaatg tcacatggtt agtcagcaag     5520
gatggctgct gcatgatagt gctgtactgg ttgccatgag agtgggcatt cctccagtca     5580
gctagctgct gtccactccc catggcctct ggaatcattg ctgtgggctg gacagaattg     5640
tgtagagcta ccccaggcaa ctgttgccaa gttgaaggca ggagaatttg ctgagtccct     5700
ccaggccacg cctgcagtac agcggcagtc tgttcaacca gcgccggccg gccggctgcg     5760
cagctcagag taaagggcac cgcatactgc ggtgtgatgg tggctacttg agggtggaga     5820
gttgctacca ttagtggtgt acagcttccc tgcgtgagaa ctcctgactg aatctgtagt     5880
ggctgagcag ctggtgcctg gggtacaatc ggtacagcat tatccatcct cacagggaat     5940
ccagaatgct ttgttgttgc ttgtagtcca gtttgaaacg caggtggaca tactataaat     6000
gtctgttgga atggatctgt ctgagtgcaa atctgggtgg ttccaggctg caaggaaaca     6060
ccctgctggg caactccagg aactggtgca gcagatgatg ggtacaaagc tgactggtag     6120
tttagtagtg agacatctga attagccaga gaaagagtag cagctgctgc agtagaactg     6180
gaagctagaa cactggctga ttgctatgtg gaaaatccaa aaggtgagtc att            6233
```

<210> 5596
<211> 4321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (232)...(3905)
<223> similar to gi1702924 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5596
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agtcgacgat ttcgtcggcc gtggccgctc ggggcgcagc ggtagttttg tgtgtgtgta       60
cagcggggga cgcgcgctgc cggctcctgg gctggcgaca gattgtgcag gaatgcgagg      120
aatgcaccag gggcagagtc cacacagtcc gccgcggctg ccctagcgcc ttccctcccc      180
agctctcgcc gcgcagccag aggtcaccgg agcatcttcg gagctggagg aatgccagct      240
```

```
cctgagcagg cctcattggt ggaggagggg caaccacaga cccgccagga agctgcctcc      300
actggcccag gcatggaacc cgagaccaca gccaccacta ttctagcatc cgtgaaggag      360
caggagcttc agtttcagcg actcacccga gaactggaag tggaaaggca gattgttgcc      420
agtcagctag aaagatgtag gcttggagca gaatcaccaa gcatcgccag caccagctca      480
actgagaagt catttccttg gagatcaaca gacgtgccaa atactggtgt aagcaaacct      540
agagtttctg acgctgtcca gcccaacaac tatctcatca ggacagagcc agaacaagga      600
accctctatt caccagaaca gacatctctc catgaaagtg agggatcatt gggtaactca      660
agaagttcaa cacaaatgaa ttcttattcc gacagtggat accaggaagc agggagtttc      720
cacaacagcc agaacgtgag caaggcagac aacagacagc agcattcatt cataggatca      780
actaacaacc atgtggtgag gaattcaaga gctgaaggac aaacactggg tttcagccat      840
cagtagccaa tcgggccatg agaagagtta gttcagttcc atctagagca cagtctcctt      900
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gaggatttgg ctctccgtca gtgaccgacc cccgacctct gaaccccagt gcatattcct     1020
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cagctatacg gcggattggg tcagtcacct cccggcagac ctccaatccc aacggaccaa     1140
cccctcaata ccaaaccacc gccagagtgg ggtccccact gaccctgacg gatgcacaga     1200
ctcgagtagc ttccccatcc caaggccagg tggggtcgtc gtcccccaaa cgctcaggga     1260
tgaccgccgt accacagcat ctgggacctt cactgcaaag gactgttcat gacatggagc     1320
aattcggaca gcagcagtat gacatttatg agaggatggt tccacccagg ccagacagcc     1380
tgacaggctt acggagttcc tatgctagtc agcatagtca gcttgggcaa gaccttcgtt     1440
ctgccgtgtc tcccgacttg cacattactc ctatatatga ggggaggacc tattacagcc     1500
cagtgtaccg cagcccaaac catggaactg tggagctcca aggatcgcag acggcgttgt     1560
atcgcacagg ttcagtaggt attggaaatc tacaaaggac atccagccaa cgaagtaccc     1620
ttacatacca aagaaataat tatgctctga acacaacagc tacctacgcg gagccctaca     1680
ggcctataca ataccgagtg caagagtgca attataacag gcttcagcat gcagtgccgg     1740
ctgatgatgg caccacaaga tccccatcaa tagacagcat tcagaaggac cccagggagt     1800
ttgcctggcg tgatcctgag ttgcctgagg tcattcacat gcttcagcac cagttcccat     1860
ctgttcaggc aaatgcagcg gcctacctgc agcacctgtg ctttggtgac aacaaagtga     1920
agatggaggt gtgtaggtta gggggaatca agcatctggt tgaccttctg gaccacagag     1980
ttttggaagt tcagaagaat gcttgtggtg cccttcgaaa cctcgttttt ggcaagtcta     2040
cagatgaaaa taaaatagca atgaagaatg ttggtgggga tacctgcctt gttgccgact     2100
gttgagaaaa atctatttga tgcagaagta agggagcttg ttacaggagt tctttggaat     2160
ttatcctcat gtgatgcctg taaaaaatga caatccattc cgaaaatgct ctcctcaacc     2220
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ctcttctagc agaaagttcc aacccagcca ccttggaagg ctctgcaggg tctctccaga     2820
acctctctgc tagcaactgg aagtttgcag catatatccc gggcggcccg tccgaaaaga     2880
aaaggggctc cccatccttg tggagcttct gagaatggat aaccgataga gttgtttctt     2940
ccgtggcaac aagccttgag gaatatggca ctagatgttc gcaacaagga gctcataggc     3000
aaatacgcca tgcgagacct ggtcaaccgg ctccccggcg gcaatggccc cagtgtcttg     3060
tctgatgaga ccatggcagc catctgctgt gctctgcacg aggtcaccag caaaaacatg     3120
gagaacgcaa aagccctggc cgactcagga ggcatagaga agctggtgaa cataaccaaa     3180
ggcagggggcg acagatcatc tctgaaagtg gtgaaggcag cagcccaggt cttgaataca     3240
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accaccaacc aacagatgtc acccatcatt cagtcagtcg gcagcacctc ttcctcacca     3420
gcactgttag gaatcagaga ccctcgctct gaatacgata ggacccagcc acctatgcag     3480
tattacaata gccaggggga tgccacacat aaaggcctgt accctggctc cagcaaacct     3540
tcaccaattt acatcagttc ctattcctca ccagcaagag aacaaaatag acggctacag     3600
catcaacagc tgtattatag tcaagatgac tccaacagaa agaactttga tgcatacaga     3660
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4119

```
ttgtatttgc agtctcctca tagctatgaa gatccttatt ttgatgaccg agttcacttt    3720
ccagcttcta ctgattactc aacacagtat ggactgaaat cgaccacaaa ttatgtagac    3780
ttttattcca ctaaacgacc ttcttataga gcagaacagt acccagggtc cccagactca    3840
tgggtgtacg atcaagatgc ccaacagagg aactctttct ttctaacctt gttcagattg    3900
aggtgaaaag tccatcttgc tgatttcatg attgaaatgt gaaagtgaag tggaaggaat    3960
gaatgaagtg tgtttttttt ttttcttttt tgaggaatta tcagggaagt gaggaaatgt    4020
ttgggagagg actttctaag ctctatttag gtgttagatc taattactta tagattctgt    4080
agtctggtga aggtgtgggt gacgtgatga gaggtttgag aaatgggtga aatgaaatgg    4140
gggatatgta ggtcaaatca aattaaagat gatttttta atgtgaataa agttatgttc    4200
tgataagttt gtacagaaaa aataaaatgg atgcccatgt tttattgcta ttactaaatg    4260
tcaagattgt atgctattat gtcttgtaaa tttctttgt tggtgtaaat atggaaatgc    4320
c                                                                     4321


        <210> 5597
        <211> 2197
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (608)...(2180)
        <223> similar to gi3947613 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


        <400> 5597
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ggtgaattcg gactgtgact ctgtgttacc ctccaacttc ctcctggggg gcaatatctt     120
tgatcccctg aacctgaata gcctcctgga tgaggaagtg agccgcactc tcaacgcgga     180
gacccctaag tcatcccccc ttccggccaa agggcgagat ccggtggaga tcctcatccc     240
caaagatatt actgacccgc tcagtctcaa tacttgcact gatgagggcc atgtagttct     300
tgcttcgcca ctcaagactg gtcggaagcg gcatagacac cggggacagc accaccagca     360
gcagcaggca gccggaggga gtgagagtca ccccgtgccg cccacagccc ctctcacccc     420
cttactccac ggggagggcg cctcacagca gccgcggcac aggggccaga accgggatgc     480
cccccaaccc tatgaactca acacagccat caactgcagg gatgaagtgg tgtctccct     540
tccatctgct ctgcagggtc cctcaggctc cctatcagcc cctccagctg cctcagttat     600
ctctgcaccc ccatcttcct cctcccgaca tcgcaaacgt cgcaggactt ccagcaagtc     660
ggaggcaggg gctagggtg gaggccaggg ttccaaggaa aagggccgag ggagttgggg      720
aggccgccac caccaccacc acccactgcc tgcagcaggc ttcaaaaagc aacagcgcaa     780
gttccagtat gggaattatt gcaaatacta tgggtaccgc aatccttcct gtgaggatgg     840
gcgccttcgg gtgttgaagc ctgagtggtt tcggggccgg gacgtcctag atctgggctg     900
caatgtgggc catctgaccc tgagcattgc ctgcaagtgg ggcccgtccc gcatggtggg     960
cctggatatc gattcccggc tcatccattc tgcccgccaa aacatccgac actacctttc    1020
cgaggagctg cgtctcccac cccagacttt ggaaggggac ccgggggcag agggtgagga    1080
agggaccacc accgttcgaa agaggagctg cttccagcc tcgctgactg ccagccgggg     1140
tcccatcgct gcccccaag tgcccttgga tggagcggac acatcagtct tccccaacaa     1200
tgttgtcttc gtcacgggta attatgtgct ggatcgagat gacctggtgg aggcccaaac    1260
acctgagtat gatgtggtgc tctgcctcag cctcaccaag tgggtgcatc tgaactgggg    1320
agacgagggc ctgaagcgca tgtttcgccg gatctaccgg cacctacgcc ctggggggcat    1380
cctggtccta gagccccaac cctggtcgtc gtatggcaag agaaagactc ttacagaaac    1440
gatctacaag aactactacc gaatccaatt gaagccagag cagttcagtt cctacctgac    1500
```

```
atccccagac gtgggcttct ccagctatga gcttgtggcc acaccccaca acacctctaa    1560
aggcttccag cgtcctgtgt acctgttcca caaggcccga tcccccagcc actaagtggc    1620
cccctaaaca gaaagtgtga agaggctgcc ctcgctgctc ataaggacct gggggaagag    1680
gaaagtgtcc caaggtcttt cctttctgac tccaaaaata gtttcctttc ttggatctgc    1740
aaagaaagct tttcttccgt cgctgcctca gcctcctccc tatgcctctg gcacctgcgc    1800
agcaaggctg gctgtgctgg agtcaccatc atcttcctct cccccagcct cccaggctgg    1860
atggcatgga ctgtttgctg acctctgttc tcttagggca tgggaggtgg gaggatatca    1920
aattctctag ccctttcctc ctattctccc aaggagagag attcccattt ctcctcggcc    1980
attgtaccta gctcttgtcc ctagctgcat ttcagtggac catggataga gggactgagg    2040
gttagacggg gaagactggc agggaggcac gcaggtactg tgaaaatcct tccctttgcc    2100
ctcccccagt gggagagggg gttgggtttt caatgtgaga acagcacaat aaacttgatg    2160
tctagggcag tggcccccac ccctgtcaaa aaaaaaa                             2197
```

<210> 5598
<211> 4378
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (230)...(4154)
<223> similar to gi1228045 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5598
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ccctcattct cccgggggaa gcctcgcaac gaagggccgg agccgcctttt ctgctcccgg    120
aatgcttcac ctgtccgcag ctccgcccgc cccaccccccg gaagtgacgg cgaccgcgcg    180
gccctgcctt tgttccgttg ggcgtcgcgg cgacggcggg aagatggcgg cggcgggagc    240
cctggaacgg agcttcgtgg agctaagcgg agctgagcgc gaaaggccga ggcactttcg    300
ggaattcaca gtctgcagca ttgggactgc aaatgccgtg gctggcgccg taaaatacag    360
tgaaagcgcg ggaggctttt actacgtgga gagtggcaag ttgttctccg taaccagaaa    420
caggttcatt cattggaaga cctctggaga tacattggag ctgatggagg agtcactgga    480
cataaatctg ttgaataatg ccattcgcct aaaattccaa aattgcagtg ttttacctgg    540
aggggtttat gtctctgaga ctcagaatcg tgtgataatc ttgatgttaa ccaatcaaac    600
agtgcacagg ttacttttac cacacccctc ccggatgtat aggagtgagt tggtagttga    660
cagtcagatg cagtcaatat tcactgacat tggaaaagtt gatttcacag atccttgcaa    720
ctatcagtta attccagcag tacctggaat atctcctaat tccaccgcct ctacagcctg    780
gctcagcagt gatggggagg ccctgtttgc cttaccatgt gcttctgggg gaatctttgt    840
tcttaagcta cctccttatg acatacctgg tatggtgtca gtcgtggaac tgaaacagag    900
ttcagtaatg caacgattgc ttacaggctg gatgccaaca gctatcaggg gtgaccagtc    960
gccttcagat cgtcccctca gtcttgctgt tcattgtgtg gagcatgatg ccttcatctt   1020
tgctttgtgt caggatcata aactacgaat gtggtcttac aaggagcaaa tgtgcctaat   1080
ggtagctgac atgctggagt atgtccctgt gaagaaagac cttcggctta ctgctggaac   1140
tggacacaaa ttacggcttg cttattcccc caccatggga ctctacctgg ggatattcaa   1200
tgcatgcacc aaaacgagga cagttctgca ttttccagtt ggtgagcact gagagtaatc   1260
gctatagtct cgatcatatt tcttcactgt tcacttctca ggagacactg attgactttg   1320
ccttaacttc cacggatatc tgggccctgt ggcatgatgc tgagaaccaa acagtagtga   1380
aatacatcaa ctttgaacat aatgttgcag gtcagtggaa tccagttttt atgcagcctc   1440
tgccagagga agagattgtc atcagagatg atcaagaccc cagagagatg tatctgcaaa   1500
```
```
                                                                    4121
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gtctttttac accaggacaa ttcacaaatg aagctttatg taaggcttta cagattttct   1560
gccgaggaac tgagaggaat ttggatcttt cctggagtga actgaagaaa gaagttactt   1620
tagctgttga aaatgagctt caaggaagtg taacagagta tgaattctcc caggaggagt   1680
ttcgaaattt acaacaagaa ttctggtgca agttctatgc ctgttgtctt cagtatcaag   1740
aagccctctc tcaccctctt gccctacatt tgaatccaca cacaaacatg gtgtgcctgc   1800
tgaaaaaagg gtacctgtct ttccttattc cctcatcctt agtggatcat ttgtatctcc   1860
tgccttatga gaaccttttg acagaagatg agacaaccat atctgatgat gtggatatcg   1920
ctcgggatgt catatgtctt ataaaatgcc tccggctgat tgaagagtca gtaactgtgg   1980
atatgtcagt tataatggaa atgagttgtt ataacctaca gtctccggaa aaggctgcag   2040
agcagattct ggaagatatg atcactattg atgtagaaaa tgtgatggag gatatttgta   2100
gtaaactgca agagattagg aacccaatcc atgcaattgg actacttata cgggaaatgg   2160
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tgcataaaat cgccagtact cgtttcctga tctgcagaga tcttttgatc ttacagcagc   2340
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cctggtgtca agtcaatgtt ggttcctgtc gatttatgct gggaaggtgt tacctagtta   2880
caggagaagg acagaaggct ctggaatgtt tttgtcaggc agcatctgaa gtaggcaaag   2940
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tgcagtatta tgacaaggtt ttacgactac tagatgtcat tggtttgcct gaactggtta   3060
ttcagttggc tacatcagcc ataactgaag caagtgatga ctgggaaaag tcaggctact   3120
cttaaggaca tgtattttca aacatcattt gggatttggg gtcacaatag ccaagcatat   3180
ggaagccttt aaccccaaat tcctgattcc agcaggcaat tagattgttt acggcagttg   3240
gtggtagttc tttgtgaacg ctcacagcta caggatcttg tagagttttc ctatgtgaat   3300
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cacaattact atgaacttct gtatgccttt cacatctatc gccacaatta ccgcaaggct   3420
ggcacagtga tgtttgagta tggaatgcgg cttggcagag aagttcgaac tctccgggga   3480
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tgtggatgct gaattggtga aaagacatca ctacttatca atcgacgtac caatggccgc   4260
tacagtccca gtgcagagac ttacgtactc ctctattgat caacttaacc aaactttggg   4320
aaagaactgt gccatcagta cccacattcc actggcccaa aaaatccttt acttttt        4378
```

    <210> 5599
    <211> 3925
    <212> DNA
    <213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3926)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (208)...(2552)
<223> similar to gi2769562 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5599
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ctctgccaat gatcctgtga gtattcagga atcactgttg cccctgggga tccttgtcct    180
ggagtggccc acctgcttgc ccccagcatg gcgtccgaca ctcccgagtc gctgatggcc    240
ctctgtactg acttctgctt gcgcaacctg gatggcaccc tgggctacct gctggacaag    300
gagaccctgc ggctacatcc ggacatcttc ttgcccagcg agatctggtg accggctcgt    360
caatgagtat gtggagctgg tgaacgctgc ctgtaacttc ggagccacac gaagagcttc    420
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tgaggaccct ggtgcaggac ccaggaccct ggaggccatc cgcaagcagg acctgggtgg    540
agcttgtacc tgactaactt gcgagaagct gtccgccaag agcctgcaga cactgaggag    600
cttcagccac accctgggtg ttccttgagc ctttttcggc tgttacaaac attttnttat    660
tgaggaagga gaacccaggg gggcttttga agatgagtac ctcttcaacc ccacctgcca    720
ggtgctggtt aaggatttca ccttcgaggg cttcagccgc ctccgcttca ctgaaattgg    780
gccgcatgat tgattgggtc cctgtggagt ccgctgctgc ggccgcttaa ctccctggct    840
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catcgtgcag ctgcacaagc tgcgacacct ggacatctcc cgagaccgcc tctccagcta   1020
ctacaagttc aagctgactc gggaggtgct gagcctcttt gtgcagaagc tggggaacct   1080
aatgtccctg gacatctctg ggccacatga tcctagagaa ctgcagcatc tccaagattg   1140
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tgctttttga catcgcccgc atcgagcgtt gcaaccagct gctgcgggcc ctgaagctgg   1440
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ctctcttcta cctaacaaat tccgagtacc gctcagagca gagtgtgaag ctgcgccggc   1560
aggttatcca ggtggtgctg aatggcatgg aatcctacca ggaggtgacg gtgcagcgga   1620
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gggtcaacga gctcctgctc agcatcctca accccacgcg gcaggacgag tctatccagc   1740
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gaaactcctg acaactgcga gatgttcctc aatttcaacg gcatgaagct cttcctggac   1980
tgcctgaatg aattcccaga gaagcaggaa ctgcatagga atatgctagg acttttgggg   2040
aatgtggcag aagtgaagga gctgaggcct caactaatga cttcccagtt catcagcgtc   2100
ttcagcaacc tgttggagag caaggccgat gggatcgagg tttcctacaa tgcctgcggc   2160
gtcctctccc acatcatgtt tgatggaccc gaggcctggg gcgtctgtga gccccagcgt   2220
gaggaggtgg aggaacgcat gtgggctgcc atccagagct gggacataaa ctctcggaga   2280
aacatcaatt acaggtcatt tgaaccaatt ctccgcctcc ttccccaggg aatctctcct   2340
gtcagccagc actgggcaac ctgggccctg tataacctcg tgtctgtcta cccggacaag   2400
tactgccctc tgctgatcaa agaaggggg atgccccttc tgagggacat aattaagatg   2460
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gcgaccgcac ggcaggagac caaggaaatg gcccgcaagg tgattgagca ctgcagtaac  2520
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ctctggacca caggcgggga ggaagcatgc tcaagcagcc cagcgggcgg gcccctttccg  2640
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taatggtagg gagatatata tatattatat atatatattt ttttttttggt taggaagtgt  2760
gaagttttgt gtgtatgatt tctgtgcaaa aacaaaagca acactcctga gtccttgcag  2820
cttccttggc cattctcaaa cccactcagc cttcatcgct gacacacaca ctcctacccc  2880
aaccagacta aatgcctata acgctgtgag tgtccagtcc ttgtccagga aactcagatc  2940
ccggcctggc ttcctttcat gagaggagca ggccttggac agcgtatcga gcatcctgac  3000
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attagaactt accccactgg gtctcccaaa agccttggtg ctcccggctg tgggccatct  3120
ggggcaggaa agtgagccat tcctaggctg aggtccaggc agccctgccc ctgaagaccc  3180
tctaggagca gggcacccag tggccctgct gctgtccagc caggcctgcc tgaggccacg  3240
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cagggatggt cagaactcgg gggcagattc cactgcccct tctgccaaac acatccagaa  3360
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        <210> 5600
        <211> 7030
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (70)...(2429)
        <223> similar to gi4688902 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 5600
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ggcagctttg gaagaagtag aaggtgatgt ggccagaaat tgggaaccta aaacttgaat   180
aagcttgtga aactttgtat tgccaatgat tgatactgga aaagcctttt gtgttgcaaa   240
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ttttcacaca atcctgtttg accaaactca gagatcaatt aagggcacag cttcagaact   420
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aagaaaaaga aaatgcgtta gtaaaaaatg cccaagtaca aagaaacaaa caacatgaag   540
ttgaagaagc caccaacatt ctgacagcaa caagaaaatg tttccgacac atagccctcg   600
attatgtgct tcagattaat gttcttcaat caaaaaggag atcagaaatc ctaaaatcaa   660
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4124

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cctttgagca tagctgtgga agcagccaat gctgatatag tcaccttgtt acgtttagca   2280
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                                    4125

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cattgtaaat ggagcaaagt acattatctt ctaaaatgta cattatgtaa gaattgtaaa    6960
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<210> 5601
<211> 3734
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (3319)...(252)
<223> similar to gi3451166 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5601
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gtcactagga tggcagcggt gtccaacata ggggagcctt cttgggacca tctttttttga     360
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taaaggattt tcactgtgag gcagatttgt gcttttattt cttgattact catttctaat     480
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4127

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gcaagggcga ggacccaggc acgactcaaa ggcggctgga gggcggggac ccagacacta    3600
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gcaccagcag cacgagtctc tggaaaaaga caacctcgcc ctgcggaagg agatccagtc     240
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<210> 5603
<211> 994
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (515)...(380)
<223> similar to gi5104224 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

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cagccctcct agtgggccag cccctagtg ttaaaaatag gtccctaacc ccccagggtg   180
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ccaagtcagc ctggcccca gggcctctag gaaggagggc accccctcc cctgtgcaaa   300
tgctgcagtt ccttagtcag tgtcagctgt tttgtgtgag ccagcgtgag gctcccttc   360
tgttctggag ccagaggcag ggcaaccaga caccttggaa ggttcccctg aaccctgggc   420
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cccgccgcgt ctgggaggca gagactggct ctagaatgga tgaatgaatg atgagtgggc   540
gagccccggc tggcagggg cacattgtca ctggatcagc gccacagctg ggcagccctc   600
tccgccggtc tcctctatgg gggtggtgaa cttctctctc ctgcggcatc gtctccagac   660
caaaaagcca gaaagcagcc ccagcacgaa ggtcaggctc agagcgcccc caaggatggg   720
ccaaagcagc cggaaggggg caggaggtgc tgcagcgcag cccaggcaga agtcgctgtg   780
cggtcgcgcc ctgcaagacg cgcagtccat gcacttgtcc aggtccgcgc tccaggagct   840
gccgcgggag caggggcgg tgcctggcgc ttgctccccg gccacggagc gcagcaacgc   900
cagccagagc cccagcacga ggagccgcag caaccggcgc agcgagcccc gagccatagt   960
gcacgtcctc tcgtgccgaa ttcctcagcg cgga   994

<210> 5604
<211> 1671
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1543)...(429)
<223> similar to gi189762 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5604
ttttttttta ttttttttt tcatgttaga aattcctta ttccttatca aaacaaacta   60

4129

```
acagtaaacg tatattatat gctttaattt tatacatata agttatcttg tttggataca    120
tctttcatca ggactctgcc acatccatac tttgtccttg tggtgagaga ggataaaatg    180
tgatataatt tgttattcaa agaacatggc aaccgtaaca gacaaaagga agcatggcat    240
ctaggggagg agagtggaga gtttttccata cacaaacaca tttaaacttc cctgtacaaa    300
aatacctgct gttgctttag aaatcgtttt cctttatgaa tagtcaggtc ttgcagtaca    360
aatccaggtg cagtgccagc aagtatttca aataaatttc aacgacttga tattcaagtc    420
caaactaaat atttaatgtt ttctttattg caaatatgat gtctttgacc tgaggtatag    480
agttgtcctc tagaatcttt gcataaggca tagggacatc agcaccagtg acacgaacag    540
caggagcatc caggaaaatt gaacgcagga ccttcccatg atcctggcac agatttcaag    600
ctcctactcc caaactgtgg ccagcctcct tcccacagtt acaagatgaa ttttgtcttc    660
atgacactgg gcttctatgg gtttccatgt ccattgggtc taatgggtac gcatatttat    720
cacctcagca ttcgactcct tctttagata ggcactggct ggcaggcttc taaggcagtg    780
ggcccacagg tcttgaatgg gaaaccacag ttatatgtgt tccgtgcatt tctattttgg    840
cttttccaat aggaatcatg aaaatctttt gactgagctt ccggaggaaa ttcaaaaggg    900
aaccccatac atcaattcat tctctagcgc caccactgga ttgttatccc gaatggctga    960
tttaataagt cctttagcat cctacgaagt cctaggggact gaccaccttt aagcctgggc   1020
agtgcccata ccaggcagca aagcactgtg agtgctgggc agctacacct gctgaagcac   1080
caattgggcc cccatgatac tataagcaca ggctgaaggc caaccagaac atgtagtagg   1140
tcttggcagc tgagtttata acctggtcaa atggcttgcc atggagaaat tgaaggtcca   1200
taaattcaac aaaatgggcc gcaaacccca gccaatagct gcacctacaa gcaattccca   1260
agcaaagccc atctctgata tgggagtgtc aaataatcct cttgtctcca tatttcttcc   1320
acagccctcg actaaccttg tatgccccat catagctggg caacttcttc tccaagcaga   1380
aataccttct catctctttc cagctcctca tccatacct gatttatagc atcacgaact   1440
gtcaacctgc acggcagccg gcgcggtcca gtgaaagcgc ctcttcagca gcccagagac   1500
ctcccgaagg ggtctccgca ccaagccaga caccgccgcc atcttggtcg tgtcctctat   1560
ccgctgccaa acgaccccag aggggccggc agacgtgagc acgcccgcct ccaccggcgc   1620
gggcaatggc aaggcgcgcc ggctgcgtga cccgcccacc cgcccaccgg t            1671


        <210> 5605
        <211> 3670
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(3671)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (197)...(2288)
        <223> similar to gi5834572 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




        <400> 5605
tttcgtggag aaacccggcc cccagaagat tgtgggtgta gtggccacag ccttacaggc     60
aggcaggggt ggttggtgtc aacaggggg ccaacaggt accagagcca agaccctcgg    120
cctcctcccc cgccgccttc ctgcagatct gcttggcttt gaggaagagt ggcagtactg    180
cctcactgca taagggatgg gatcagagaa cagtgcttta aagagctata cactgagaga    240
accaccattt accttaccct ctggacttgc tgtttatccc gctgtactgc aagatggcaa    300
```

```
atttgcttca gtttttgtgt ataagagaga aaatgaagac aaggttaata aagctgccaa      360
ggtaccataa tagcatttga agacacttcg tcacccttgc ttgctaagat ttttatcttg      420
tactgtggaa gcggatggca ttcatcttgt cactgagcga gtacagcccc tggaagtggc      480
tttggaaaca ttgtcttctg cagaggtctg tgctgggatc tatgacatat tgctggctct      540
tatcttcctt catgacagag gacacctaac acacaataat gtctgtttat catctgtgtt      600
tgtgagtgaa gatggacact ggaagctagg aggaatggaa actgtttgta aagtttctca      660
ggccacacca gagtttctga ggagtattca gtcaataaga gacccagcat ctatccctcc      720
tgaagagatg tctccagaat tcacaactct cccagagtgt catggacatg cccgggatgc      780
cttttcattt ggaacattgg tggaaagttt gctcacaatc ttaaatgaac aggtttcagc      840
ggatgttctc tccagctttc aacagacctt gcactcaact ttgctgaatc ccattccaaa      900
atggcggcca gcgctctgca ccttactatc tcatgacttc ttcagaaatg attttctgga      960
agttgtgaat ttcttgaaaa gtttaacatt gaagagtgaa gaggagaaaa cggaattctt     1020
taaatttctg ctggacagag tcagctgctt gtcagaggaa ttgatagctt caaggttggt     1080
gcctcttctg cttaatcagt tggtgtttgc agagccagtg gctgtttaag agttttcttc     1140
cttatctgct tggccccaaa aaagatcatg cgcagggaga aactccttgc ttgctctcac     1200
cagccctgtt ccagtcacgg gtgatccccg tgcttctcca gttgtttgaa gttcatgaag     1260
agcatgtgcg gatggtgctg ctgtctcaca tcgaggccta cgtgggagca ctttcactca     1320
gggagcagct gaagaaagtt catcttggcc acaggtttta ctggggcctg cgtgatnact     1380
agcgattcca ttgtggcaat tactctgcat agcctagcag tgctggtctc tctgcttgga     1440
ccagaggtgg ttgtgggagg agaacgaacc aagatcttca aacgcactgc ccccaagttt     1500
tactaaaaaa tactgacctt tctctagaag gcgatccatt ttctcagcct attaaatttc     1560
ccataaatgg actctcagat gtaaaaaata cttcggagga cagtgaaaac ttcccatcaa     1620
gttctaaaaa gtctgaggag tggcctgact ggagtggacc tgagggagcc tgaaaatcaa     1680
actgtcaaca taccagattt ggccctagag aacctttgtg atgatgtcaa gtcccagtgc     1740
actaccttgg atgtggaaga gtcatcttgg gatgactgcg agcccagcag cttagatact     1800
aaagtaaacc caggaggtgg aatcactgct acaaaacctg ttacctcagg ggagcagaag     1860
cctattcctg ctttgctttc actcactgaa gagtctatgc cttggaaatc aagcttaccc     1920
caaaagatta gccttgtaca aaggggggat gacgcagacc aaatcgagcc gccaaaagtg     1980
tcatcacaag aaaggcccct taaggttcca tcagaacttg gtttaggaga ggaattcacc     2040
attcaagtaa aaaagaagcc agtaaaagat cctgagatgg attggtttgc tgatatgatc     2100
ccagaaatta agccttctgc tgctttttt atattacctg aactgaggac agaaatggtc     2160
ccaaaaaagg atgatgtctc cccagtgatg cagttttcct caaaatttgc tgcagcagaa     2220
attactgagg gagaggctga aggctgggaa gaagaagggg agctgaactg ggaagataat     2280
aactggtgac aatagatgtg agttaaactt taggaaaaag gattcccttt tttaaaaaa     2340
aatcaatacc tcaaaagcag gctttgggac aagaaaaccc caaagtggcc tgctttttccc     2400
atcccaggag ctcattatcc agtctgtgcc aactgaagta ggagactgac tgtgagtgct     2460
ggctaaaagc cctgggtggt gaggctcaca gtactggttt ccagggagga agagcctttg     2520
tgcatttgac tgaggccagt ttctatggaa gagccaagta ggcttgaggg agagggtccg     2580
aatttacctg ccttttttccc cgggacaatt ccgggaagta aagaaaatgt aattccaagc     2640
ctggttagcc ttaatttttgt gcccattctt ttctttaaca taagagtaag ctctattatg     2700
aaatacaact tttaaaaaat tttagcctat aaattatata aatgatttta aattgctgag     2760
gtttccttag gcagcttatt tatttgttta cagttagact atctgagtaa atggttcttt     2820
gtggacctag gcagttcctg actgttccac atgtagtaca ttgtaccaaa gttcttaata     2880
agaatattcc ccacaatcct gttctctaaa tgtcaaataa agattatttt cactagattc     2940
aactttacaa aatttgtttt atatctgtta gaaaatgtac agacataagt attttcagtt     3000
gacaaagcat caaacccagt tctgcctagt gataagtttc accctagagt atgtatgtaa     3060
cgttttagct tatccatcct ttcttggagc gcctccattt ccattgaaag ccaggctgga     3120
gcaggaccct tttggagtag tgactcagtt gcttccaaag cccctgtcta ttgtatgcag     3180
cgctgaccat gtactcttct tcccagggggg aactcctgac gagctcttat tgcataaggc     3240
tgtaaagatg acctctatgc ttcttctaca gtcacattag gcaaagggtt cccaggaaaa     3300
tacctttttt cctgtttcac acgttccact ttgggcagct ttcagtttca tctacaaacc     3360
cagtcttctc cagaaaggat acaactttgt tcttagtttc ttcagaactg agacactgtg     3420
gaactatctc ttcatgattt gttccctcag cgaactgagt aaacgcctcc aaggtatgtt     3480
gttctagcag ccaactcctg tcagctagca gtaaggcaaa catacaggac aggttgggca     3540
gaattctgtc ctggatagct tcaggtataa aaagtttca taaagaagat acaaaatcca     3600
acattgccta acgaacatag tcaggaagct ctaatttaag tagcgaggtc tgcaaagtta     3660
cctcgtgccg                                                            3670
```

<210> 5606
<211> 1774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1279)...(1756)
<223> similar to gi804764 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5606
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agaaacccc  accccttctc  cgtgtctcta  ctctttctc  tgggcttgct  ccttcactat    60
gggcaagctt  ccaccttcca  ttcctttctt  ctcccttagc  atgtattctt  cagaacttaa   120
aatctcttca  attctcacct  gacctaaaat  ctaagcatct  tattttcttc  tgcaatgctg   180
cttgacccca  atataaactc  gacaggagtt  ccaaatagcc  agaaaatggc  acattcaatt   240
tttccatcct  acaagatcta  aataattctt  gtcgtaaaat  ggcaaatggt  ctgaggtgcc   300
tgaagtccag  gcattctttt  acacatcagt  cccttcctag  tctctgtgcc  cagtgcaact   360
cgtcccaaat  cttccttctt  tccctcccgc  ctgtcccctc  agtcccaacc  ccaagcgtca   420
ctgagtcttt  ctaatcttcc  ttttctacag  acccatctga  cctctcccct  cctccctggg   480
ctgctcctcg  ccaggccgag  ctaggtccca  attcttcctc  agcctctgct  cctccaccct   540
ataatccttt  tatcacctcc  cctcctcaca  cctggtccgg  tttacagttt  cgttccgtga   600
ctagccctcc  cccacctgcc  cagcaattta  ctcttaaaaa  ggtggctgga  gccaaaggca   660
tagtcaaggt  taatgctcct  ttttctttat  cccaaatcag  atagcgttta  ggctcttttt   720
catcaaatat  aaaaatccag  cccagttcat  ggctcgtttg  gcagcaaccc  tgagacgctt   780
tacagcccta  gaccctaaaa  ggtcaaaagg  ccatcttatt  ctcaatatac  attttattac   840
ccaatctgct  cccgacatta  aataaaactc  caaaaattaa  attccggccc  tcaaacccca   900
caacaggatt  taattaacct  cgccttcaag  gtgtacaata  atagagtaga  ggcagccaag   960
tagcaatgta  tttctgagtt  gcaattcctt  gcctccactg  tgagacaaac  cccagccaca  1020
tctccagcac  acaagaactt  ccaaacgcct  gaaccacagt  tgccaggggt  tcctccagaa  1080
cttcctcccc  caggaacttg  ctacacatgc  cggaaatctg  gccactgggc  caaggaatgc  1140
ccgcagcccg  ggattcctcc  taaaccgtgt  cccatctgtg  tgggacccca  ctggaaactg  1200
gactgtccaa  ctcacctggc  agccactccc  agagcccctg  gaactctggc  acaaggctct  1260
ctgattgact  ccttcccaga  tcttcttggc  ttagcggctg  aagactgatg  ctgccggatc  1320
gcctcggaag  ccccgtagac  catcacggat  gccgagcttt  aggtaactct  cacggtggag  1380
ggtaagtccg  tccccttctt  aatcaatacg  gaggctaccc  actccacatt  accttctttt  1440
caagggcctg  tttcccttgc  ctccataact  gttgtaggta  ttgacggcca  ggcttctaaa  1500
cctcttaaaa  ctccccaacg  tctggtgcca  acattagaca  atacgtcgtt  ttaagcactc  1560
cttttttagtt atccccatcg  tgccaggttc  ccttattagg  ctgaggacac  tttaactaaa  1620
ttatctgctt  ccctgactat  tcctggacta  cagctgtatc  tcattgccac  ccttcttccc  1680
aatccaaagc  ctcctttgtg  tcctcctctt  gtataccca  acttaaccca  caagtataag  1740
atatctctac  tccctccttg  acgaccgatt  catg                                1774
```


<210> 5607
<211> 4178

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4135)...(1038)
<223> similar to gi4240251 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5607
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tttttttttt ccgctcagat attttatttg tgtttgtctt tttctttttt tggtggggg       60
aaggggacag gttggaaggg agacagaaaa acaaaatcaa agaggagaaa aaaaacatga      120
ctcttcccac cctccaccac ccctggcccc aggcctgagt caatgagggt gaggatgagc      180
acacacagcg ggcgaacagc aataacttag ggaggagcg ccaggagaac acagagtgac      240
tgctggactc cacagctgag gaggctgcct gtctagaggt ccgaagggct gggcctgggg      300
taagtgagca aactgaggaa ggtgggtgaa aagagaggac taggggactg gagaaacttc      360
actgagtcgt gggagataaa gtgctcaatg ctctagattt gggctggaag ggctggagtc      420
agctacctcc aggggggcag ggcccgggac tggcgggtgc gtgacctccg cccggctaga      480
gtccctggca gtggctggcg ggaggcaggg ggccctagct ggcgctggct gcgtggtagt      540
agccggggga ttcgggtggg ccgttcaccc cgaagcaggc cccagctggc cagtgtgtgg      600
atggcccacg ggggcaagtg ggatgctaaa ccctggctgg cccgtgccag acgccagttc      660
cagcccttgc acaggaccca gacccttgcc aacagagcta atgggtgttg ggtggtgcgg      720
ggattacgcc gccggggccc agggacgggc aggcggctgc ggaagccatc cttgttggtt      780
ttggggtaca gtgcaaacag accccggtcc cccacagccc cacagccctg cagggcccgg      840
aaggccatgg gtgacaggcg cagcagaacc cgcaaccaga gtcgagatat gccccggcgc      900
acccgggggc cctgctgccg cacccatctg cccccgctg ccatagccac cagaggtaga      960
gctaggcctg gccaagctaa gagccaggca gctccaaggc ccaggggaac acccatgagg     1020
cctcggcgcc agctcaggcc caggacggcc cccagtgcgg taccctgggc caggagtagg     1080
aaaagactgg agggcaggtg cagggctgta caaaggagca ggtaggaggc ccccagaccc     1140
accagcccca cctcaagggc cagcagcgct gcctgcaggc caccccacc ctgggctgcc     1200
agcaatggaa gcagcagcag cagcaggagg ggcaggaggc cagaggagga ccccactgca     1260
aaggagaggc cggccaggag gccatgggac aggagtccag ggagctggct ggcagggcag     1320
ggcctcaggt gtgttggagg gggttcagga gggatgtcgg gggaaggaca accatctcca     1380
ggatccctag gggtcccaat cggagccccc tcttcctctt cttcctcctc ctcagggacg     1440
ggagtcagtg ctgggccctg gacccagcca agctcaaact cctcatccag aagactctca     1500
tcctccttcc cccacaagct ccacgtccca gcctcctcct ggccaacaat gctcctctcc     1560
tggggtacaa gggagggcac cctaagctcc tctatctcct caggcagacc ccaaacttcc     1620
tcatcaacca ggctcccatg tttttgtgga ctgggactag gggctcctga ttcttccccc     1680
agaatcctct gctgcttggg ctccaaagtg gccccttcct ttcccagaat ccttctctct     1740
ccaactgctt cctcctcctc gccaagcatt ctttggtcca ggactgcctc ctggccaggt     1800
gagcagggct gctgttctat aggggtgcct gtgttgggtg ggcccagagc cccaggaatg     1860
gggagtggaa ggcccggggg gcgctggcct gcacgtactt tgaggctctt gggctgctgg     1920
cgaacctggg ccgcatgctt ctgccgcaac tcttgctcac gccgcttgtt gtactccagc     1980
tggttgccca gctccgtctg gtgctgcagg cgggtgagct cagcccgcgt gcgctgcagc     2040
gccttggagc tgccgcagct ccagctcccg cgtggcctcg tgctgccgaa gcagcagtgc     2100
acactccaag tccttctggg tctgcttctt gttcaggtcc tcccgcagca ggtcctggtc     2160
caggctgtgc cgagccagca acatcttgcg cttgtactgg cgacactgca gctcaaagta     2220
ctggcgctgc cgccgcagca gccctgcttc ctcctccgcc tggcactgct ggagctgctc     2280
cttctgccgc agcagccact cggccttctc ccgcttggga gtgctgggt tctcctggag     2340
ctcctccttc agctgttcct tgcgaagttt gtaggtccgc ttctgtgcct ccagcaggc     2400
agccagctcc ttcttctgct gcccaaggat gtgctgctgg aacttccgct cctcggcctg     2460
ggcagctcgt gcctccttct cacctatggc ctggtgccgc cgggccagct tttctgcctc     2520
tgccccaaag ccagcccgct gcgcctcaag ctcccgctgc agccgtgcac tgtgctcctc     2580
ccgttcaccc ctcagccgtg actccagggc cagcagctgc ttctggtgct gtcgtcgcat     2640
```

```
ccgcttatag ccgctcagct gctcccgcag cgcagagtcc tgctcatgct cctggatctg    2700
acggctgacc agggaggcgg ttcggatggt ggcaaagtgg tctcggttac ggcagtaggc    2760
ccggcggcgg gcggaagagg tggtggaagt gggagctggg gctgcaggcg gctggagagg    2820
gctgggggtt atctctggct ggtaggggtc atcatatagg ttgtcagagc ccggcagccg    2880
gtggataatg gagctgtgag aggtgactgt gtgctccccc tcctgcatca tggccatctc    2940
ccgggcttca gggccttctt cctcctcctc ctcttcctcc tcctcctcct cctcttcctc    3000
gttgtctgag gcatctgcta ggctgttgac ggagctgctc tggctggagg cgctgatgga    3060
catgctgggc actgagtggc tactctcgag gctggtcaga gtcccggccc ggtgcatgta    3120
gggctcggcc tcctcttcct cctctggggc ctcggcacca gggccgttgg gtgcctcttg    3180
gaacaggatc ttcttcatct tgcggtactg caggttgtcc agctcccgca cggcatcctt    3240
ggtcctctgg atcaggtcca tgatgactgt gggtggccgc tcccggagca caaagcggtg    3300
cttcaggaga acctctgagg ttggtctgtc ttgagggatt ttctgaagac aggagtcgac    3360
aaaattccgg aagtactcag accagtgtcc tgactggagc acggggatt cgttctgtgc     3420
aatgtggtat aaggcactca tcgcattcat gttaaagagc ggtggtttcc gttcagccag    3480
ctcgatgcag gttatcccca aggaccagac gtccactttg ccatcgtact gcccctcatc    3540
catggccagg atcacctcgg gtgccatcca gtatggggtg cccaccgaag aagttggcag    3600
gtgccatgat ggacgcagaa ccaaagtccc ctagcttcac taaccctggc tctgacagca    3660
ggatgtttcc agccttcaca tccctatgga tcatgttgtg ggagtgcaga tatgccaggc    3720
cctgaagcgc cccgtgggtc acagctgcga tctctacctc ctgaaggggt ttcttgtgca    3780
cttctagaag gtcagaagct gagcccaggc aatactccat taccagccaa gccgtgtgct    3840
ccctcaggta acagccccgg tactgaatgg tgttgggatg ccggagcttc tgtaagaacc    3900
gcacctcctt gatgatgtct tgccatttct cattggactg cttcccactg taggacatct    3960
tcttgatggc caccacctca ctattccgga catcccgggc aaagtatacg gctccaaagc    4020
tgccatggcc aatttcccgg aggtcagaga agagcttttc tgggtcatcc ttgaagaaga    4080
gctcagccac atctgggtcc ttcaggctcc cggcccggcc cccagctggc atggtggccc    4140
ctggggccc tgagagtggg gcctggcccc aactgttt                             4178
```


        <210> 5608
        <211> 1010
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1011)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (113)...(255)
        <223> similar to gi1537015 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 5608
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ggcacgagag gggggatcgc tgggagcggt tgcggcgtgc ggggagctga gttatagctg      60
tgacttctgc cctgccaggc cgcacacaag ctggctgacc cggtttgtaa aaatggaatt     120
tcaagcagta gtgatggcag taggtggagg atctcggatg acagacctaa cttccagcat     180
tcccaaacct ctgcttccag ttgggaacaa acctttaatt tggtacccat tgaacctgct     240
tgagcgtgtt ggatttgaag aagtcattgt ggttacaacc agggatgttc aaaaggctct     300
atgtgcagaa ttcaagatga aaatgaagcc agatattgtg tgtattcctg atgacgctga     360
```

```
catgggaact gcagattctt tgcgctacat atatccaaaa cttaagacag atgtgctggt      420
gctgagctgt gatctgataa cagacgttgc cttacatgag gttgtggacc tgtttagagc      480
ttatgatgca tcacttgcta tgttgatgag aaaaggccaa gatagcatag aacctgttcc      540
cggtcaaaag gggaaaaaaa aagcagtgga gcagcgtgac ttcattggag tggacagcac      600
aggaaagagg ctgctcttca tggctaatga agcagacttg gatgaagagc tggtcattaa      660
gggatccatc ctacagaagc atcctagaat acgtttccac acgggtcttg tggatgccca      720
cctctactgt ttgaaaaaat acatcgtgga tttcctaatg gaaaatgggg tcaataactt      780
ctatccggag tgaacttgat tccatattta gttgaggaaa acagttttcc tcagcttcct      840
cacaacaggg gacaaggaag gaaaaagagg gagggtctaa aggaaaaagg ggcttgaagt      900
cctttaggat atcttacagt ttttattaaa aggaagccaa ttacactgga accggggctc      960
cctatggatg gcctgctggg gattgcctgt tcgagggngg acggttgggg               1010
```

<210> 5609
<211> 2189
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (50)...(2003)
<223> similar to gi4680647 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5609
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ctcccaggtg cgcgcttcgc tcccggagcc gcggaactcg gcggccgcca tggcgtccaa       60
catggaccgg gagatgatcc tggcggattt tcaggcatgt actggcattg aaaacattga      120
cgaagctatt acattgcttg aacaaaataa ttgggactta gtggcagcta tcaatggtgt      180
aataccacag gaaaatggca ttctacaaag tgaatatgga ggtgagacca taccaggacc      240
tgcatttaat cccagcaagt catccagctt cagctcccta ctccctcctt cctcccttcc      300
agcgtttcga cctgtaatgc ccacccaggg cagattgtag gaaagggcaa cctcggatgc      360
tggatttcag ggttgaatac agagacagaa atgttgatgt ggtacttgaa gacacctgta      420
ctgttggaga gattaaacag attctagaaa atgaacttca gatacctgtg tccaaaatgc      480
tgttaaaagg ctggaagacg ggagatgtgg aagacagtac ggtcctaaaa tctctacact      540
tgccaaaaaa caacagtctt tatgtcctta caccagattt gccaccacct tcatcatcta      600
gtcatgctgg tgccctgcag gagtcattaa atcaaaactt catgctgatc atcacccacc      660
gagaagtcca gcgggagtac aacctgaact tctcaggaag cagtactatt caagaggtaa      720
agagaaatgt gtatgacctt acaagtatcc ccgttcgcca ccaattatgg gagggctggc      780
caacttctgc tacagacgac tcaatgtgtc ttgctgaatc agggctctct tatccctgcc      840
atcgacttac agtgggaaga agatcttcac ctgcacagac ccgggaacag tcggaagaac      900
aaatcaccga tgttcatatg gttagtgata gcgatggaga tgactttgaa gatgctacag      960
aatttggggt ggatgatgga gaagtatttg gcatggcgtc atctgccttg agaaaatctc     1020
caatgatgcc agaaaacgca gaaaatgaag gagatgcctt attacaattt acagcagagt     1080
tttcttcaag atatggtgat tgccatcctg tattttttat tggctcatta gaagctgctt     1140
ttcaagaggc cttctatgtg aaagcccgag atagaaagct tcttgctatc tacctccacc     1200
atgatgaaag tgtgttaacc aacgtgttct gctcacaaat gctttgtgct gaatccattg     1260
tttcttatct gagtcaaaat tttataacct gggcttggga tctgacaaag gactccaaca     1320
gagcaagatt tctcactatg tgcaatagac actttggcag tgttgtggca caaaccattc     1380
ggactcaaaa aacggatcag tttccgcttt tcctgattat tatgggaaag cgatcatcta     1440
atgaagtgtt gaatgtgata caaggaaaca caacagtaga tgagttaatg atgagactca     1500
tggctgcaat ggagatcttc acagcccaac aacaggaaga tataaaggac gaggatgaac     1560
```

4135

```
gtgaagccag agaaaatgtg aagagagagc aagatgaggc ctatcgcctt tcacttgagg   1620
ctgacagagc aaagagggaa gctcacgaga gagagatggc agaacagttt cgtttggagc   1680
agattcgcaa agaacaagaa gaggaacgtg aggccatccg gctgtcctta gagcaagccc   1740
tgcctcctga gccttaggaa gaaaatgctg agcctgtgag caaactgcgg atccggaccc   1800
ccagtggcga gttcttggag cgggggttcc tggccagcaa caagctccag attgtctttg   1860
attttgtagc ttccaagagg attttccatg ggatgagtac aagttactga gcacctttcc   1920
ttaggagaga cgtaactcaa ctggacccaa ataaatccat tattgggagg taaagttgtt   1980
cccttcaaga aacccttttc ccttggaagc caaaagagta aacacgggcc cagcggtgga   2040
acccaccctt tcttggccaa gccagcaagc tgcggtcgga agaagggttc ttcgccaacc   2100
cacccccgg ctgttctcat tcaattcatg gtcccacttc tgcttcttgc aaaatggctg    2160
gaaaaagtaa taataaatat agctactta                                     2189
```

```
<400> 5610
acccaactga attcccgggt cgacgatttc gtggcggaat tccagaagag aaaataatcc    60
ctgtctagat gcagaggact tggttcctat tccagtgctc ctccggtagc agggaggcga    120
cagaaggtgt ccaactatcc attaccaaga agaaatctat tcgtttgagc ctgagacact    180
ctttgaggta aaaaattaga atgaaagaac ctttggatgg tgaatgtggc aaagcagtgg    240
taccacagca ggagcttctg gacaaaatta aagaagaacc agacaatgct caagagtatg    300
gatgtgtcca acagccaaaa actcaagaaa gtaaattgaa aattggtggt gtgtcttcag    360
ttaatgagag acctattgcc cagcagttga acccaggctt tcagcttttct tttgcatcat    420
ctggcccaag tgtgttgctt ccttcagttc cagctgttgc tattaaggtt ttttgttctg    480
gttgtaaaaa aatgctttat aagggccaaa ctgcatatca taagacagga tctactcagc    540
tcttctgctc cacacgatgc atcaccagac attcttcacc tgcctgcctg ccacctcctc    600
ccaagaaaac ctgcacaaac tgctcgaaag acattttaaa tcctaaggat gtgatcacaa    660
ctcgctttga gaattcctat cctagcaaag atttctgcag ccaatcatgc ttgtcatctt    720
atgagctaaa gaaaaaacct gttgttacca tatataccaa aagcatttca actaagtgca    780
gtatgtgtca gaagaatgct gatactcgat ttgaagttaa atatcaaaat gtggtacatg    840
gtctttgtag tgatgcctgt tttttcaaaat ttcactctac aaacaacctc accatgaact    900
gttgtgagaa ctgtgggagc tattgctata gtagctctgg tccttgccaa tcccagaagg    960
tttttagttc aacaagtgtc acggcataca agcagaattc tgcccaaatt cctccatatg   1020
ccctggggaa gtcattgagg ccctcagctg aaatgattga gactacaaat gattcaggaa   1080
aaacagagct tttctgctct attaattgct tatctgctta cagagttaag actgttactt   1140
cttcaggtgt ccaggtttca tgtcatagtt gtaaaacctc agcaatccct cagtatcacc   1200
tagccatgtc aaatggaact atatacagct tctgcagctc cagttgtgtg gttgctttcc   1260
agaatgtatt tagcaagcca aaaggaacaa acctcttcgg tcggtgccgc tgttctcagg   1320
gcctaagtgg ttgttaagcc cgccctcctc cagggtcagc agtgtcaata gggaggaggt   1380
aacacctctg ccgtttcccc cagctccatc cgtggctctg ctgcagccag cctccaacct   1440
cttggtgaac aatcccagca agttgcttta acccatacag ttgttaaact caagtgtcag   1500
cactgtaacc atctatttgc cacaaaacca gaacttctttt tttacaaggg taaaatgttt   1560
```

```
ctgttttgtg gcaagaattg ctctgatgaa tacaagaaga aaaataaagt tgtggcaatg 1620
tgtgactact gtaaactgca gaaaattata aaggagactg tgcgattctc aggggttgat 1680
aagccattct gtagtgaagt ttgcaaattc ctctctgccc gtgactttgg agaacgatgg 1740
ggaaactact gtaagatgtg cagctactgt tcacagacat ccccaaattt ggtaaaaaaa 1800
tcgatgggag ggcaagtaag aagagttttg ttgtgaagat tgtatgtcca aattaacagt 1860
tctgttttat cagatggcca agtgtgatgg ttgtaaacga cagggtaaac taagcgagtc 1920
cataaagtgg cgaggcaaca ttaaacattt ctgtaaccta ttttgtgtct tggagttttg 1980
tcatcagcaa attatgaatg actgtcttcc acaaataaa gtaaatattt ctaaagcaaa 2040
aactgctgtg acggagctcc cttctgcaag gacagataca acaccagtta taaccagtgt 2100
gatgtcattg gcaaaaatac ctgctacctt atctacaggg aacactaaca gtgtttaaa 2160
aggtgcagtt actaaagagg cagcaaagat cattcaagat gaaagtacac aggaagatgc 2220
tatgaaattt ccatcttccc aatcttccca gccttccagg cttttaaaga acaaaggcat 2280
atcatgcaaa cccgtcacac agaccaaggc cacttcttgc aaaccacata cacagcacaa 2340
agaatgtcag acagatttac ctatgcctaa tgaaaaaaat gatgcagaac ttgattctcc 2400
accttcaaag aaaaaaagat taggtttttt ccagacttat gatacagaat atttaaaagt 2460
tggtttatt atctgtcctg gatcaaaaga aagttcacca aggccacagt gtgtcatttg 2520
tggagagatc ttatccagtg aaaacatgaa gccagcaaat ctttctcatc atttgaagac 2580
aaaacattca gaattagaaa acaaaccagt agatttttt gaacaaaaat ctttagaaat 2640
ggaatgtcaa aatagttctt taaaaaagtg tttactagtt gaaaagtcac ttgtgaaagc 2700
ttcttattta attgctttcc aaactgctgc aagcaagaag ccattctcca ttgctgaaga 2760
attaattaaa ccatatttag tagaaatgtg ttcagaagtt ttgggttcaa gtgctggaga 2820
caaaatgaaa actattccac tttctaatgt tacaattcaa cacaggattg atgaactatc 2880
tgcagacatt gaagaccagc tgattcaaaa ggtcagagag tcaaagtggt ttgcccttca 2940
gatagatgag tcatcagaaa tctcaaatat cacacttctt ttgtgctata ttcgtttcat 3000
tgattatgat tgtcgtgatg taaaagaaga attattattt tgcattgaaa tgcctactca 3060
aataactggc tttgaaatat ttgaactaat aaataaatat attgatagta aatctctgaa 3120
ttggaaacat tgtgttggtc tctgtaccga tggggctgca agcatgactg gcaggtattc 3180
tggtttaaaa gcaaaaattc aagaagttgc catgaataca gcggcattta cacattgttt 3240
tattcaccgt gaacgtttag tggcagaaaa gttgtctcca tgtttacata aaattctttt 3300
gcagtcagca caaatttaa gtttttataaa gagcaatgca ttaaattcac gtatgttaac 3360
aattttgtgt gaagagatgg gatctgagca tgtgagttta ccgcttcatg ctgaagtacg 3420
ttggatatca agagggagaa tgttaa                                      3446
```

<210> 5611
<211> 2531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (997)...(2355)
<223> similar to gi3874427 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5611
```
aatgaaattg aaaaacaatt gaatgccatc agagataata tcaaaattgg agaagatcgt   60
gctgctagac ttgacaggaa aatggaagaa cagcaggtca gacttaatga ggcagaacaa  120
aagtacaagg atattcaaga caaactagaa aagattagtg aagagacaaa tgcacgagca  180
ccagaatgta tggcattgaa agcagatgtt gttgctaaga aaagggccta taatgaagct  240
gaggttttat ataaccgatc cttaaacgaa tataaagcat taaagaaaga tgatgagcag  300
```

```
ctttgtaaac gaattgaaga gctgaaaaaa agtactgacc aatctttgga acctgaacgg      360
ttggaaagac aaaaaaaaat atcttggtta aaagagagag taaaggcctt tcaaaatcaa      420
gaaaattcag tcaatcaaga gatcgaacag tttcagcaag ccatagaaaa ggacaaagaa      480
gaacatggca aaattaagag agaagaatta gatgtgaagc atgcactgag ctacaatcag      540
gggcaactga aagaattgaa agatagtaaa actgatcgac tcaaaagatt tggccctaat      600
gttccagctc ttcttgaagc catagatgat gcttatagac aaggacattt tacctataaa      660
cctgtaggcc ctttaggagc ttgcattcat cttcgggacc cagaacttgc tttggctatt      720
gaatcttgct taaaagggct tctgcaggcc tattgttgcc ataatcatgc tgatgaaagg      780
gtccttcagg cactcatgaa aaggttttat ttaccatgga cctcacggcc accgataata      840
gtttctgagt gtcggaatga gatatatgat gtaagacaca gagctgctta tcatccagac      900
tttccaacag ttctgacagc tttagaaata gataatgcgg ttgcggcaaa tagcctaatt      960
gacatgagag gcatagagac agtgctacta atcaaaaata attctgtagc tcgtgcagta     1020
atgcagtccc aaaagccacc caaaaattgt agagaagctt ttactgctga tggtgatcaa     1080
gtttttgcag gacgttatta ttcatctgaa aatacaagac ctaagttcct aagcagagat     1140
gtggattctg aaataagtga cttggagaat gaggttgaaa ataagacggc ccagatatta     1200
aatcttcagc aacatttatc tgcccttgaa aaagatatta aacacaatga ggaacttctt     1260
aaaaggtgcc aactacatta taaagaacta aagatgaaaa taagaaaaaa tatttctgaa     1320
attcgggaac ttgagaacat agaagaacac cagtctgtag atattgcaac tttggaagat     1380
gaagctcagg aaaataaaag caaaatgaaa atggttgagg aacatatgga gcaacaaaaa     1440
gaaaatatgg agcatcttaa aagtctgaaa atagaagcag aaaataagta tgatgcaatt     1500
aaattcaaaa ttaatcaact atcggagcta gcagacccac ttaaggatga attaaacctt     1560
gctgattctg aagtggataa ccaaaaacga gggaaacgac attatgaaga aaaacaaaaa     1620
gaacacttgg ataccttaaa taaaaagaaa cgagaactgg atatgaaaga gaaagaacta     1680
gaggagaaaa tgtcacaagc aagacaaatc tgcccagagc gtatagaagt agaaaaatct     1740
gcatcaattc tggacaaaga aattaatcga ttaaggcaga agatacaggc agaacatgct     1800
agtcatggag atcgagagga aataatgagg cagtaccaag aagcaagaga gacctatctt     1860
gatctggata gtaaagtgag gactttaaaa aagtttatta aattactggg agaaatcatg     1920
gagcacagat tcaagacata tcaacaattt agaaggtgtt tgactttacg atgcaaatta     1980
tactttgaca acttactatc tcagcgggcc tattgtggaa aaatgaattt tgaccacaag     2040
aatgaaactc taagtatatc agttcagcct ggagaaggaa ataaagctgc tttcaatgac     2100
atgagagcct tgtctggagg tgaacgttct ttctccacag tgtgttttat tctttccctg     2160
tggtccatcg cagaatctcc tttcagatgc ctggatgaat ttgatgtcta catggatatg     2220
gttaatagga gaattgccat ggacttgata ctgaagatgg cagattccca gcgttttaga     2280
cagtttatct tgctcacacc tcaaagcatg agttcacttc catccagtaa actgataaga     2340
attctccgaa tgtctgatcc tgaaagagga caaactacat tgcctttcag acctgtgact     2400
caagaagaag atgatgacca aaggtgattt gtaacttaac atgccttgtc ctgatgttga     2460
aggatttgtg aagggaaaaa aaattctgga ctctttgata taataaaatg agactggagg     2520
cattctgaaa a                                                           2531
```

<210> 5612
<211> 2161
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2102)...(1410)
<223> similar to gi1730284 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5612

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agcgtagtct acactgctgt ttattcaaac aatcccctat taatgaatat ttggattgac      60
tctaatctgc tttttaaaaaa taaccatgga tacaatttgt acttaatacc tggaagttaa     120
aaaaactggc actgtcattc tcttgatcac tctcctgatc ctctgacttc ttgaattccc     180
atttcctcaa ctgtaaaaca aggaatttta atatgactta cctatccggg ttaaataaaa     240
ttgcaattca aaaagtattc ccatatatgt taagaaaaac tgaaatagcc actaaaatgc     300
attcaaaata aataaattat ataattatca ctacacagat tcaccataca actcatttct     360
acttaagaga ttcatataga cacaatgaca aaatagattg tgtccacaga aagatcgaga     420
gtgaaatttc cagaaactat cttagatgaa ataattgaag aattcaggtt aaatatttat     480
tgaacaaatg cagagtaaat gaactaaggg ctgttataac cttaagttac aacaaacaac     540
ttcaaatatt cagagggctg tcacacagag aatgaaagac ttgctcagta tttctccaaa     600
gggcagaact tgagccaagg gataaatata agcaaccaat gggctgcagg atagttgtac     660
aaagtgtatc atgtatcttc atagcttctt tgcccatata atgcattcca cacttaagtt     720
tctccttcta aaaggcgaca gcacaagtta atatgtctca taaatgtctt aaataagttg     780
cattttcatg gcaagccctc cactgccagc aatggatata ctcacactat tggaaaaaat     840
ctaaagttaa caaactggtt tagtatggaa atggtctatt tgttcctcag ctatgtttct     900
gtatcttaca ttagtggctc tcaggaggtg gggggtgaaa agagagcatg ttctccaaag     960
agggtgaatc ataatcccca gtgattcaga tactgtgcct ggggacaatc tttcttcaag    1020
tccaaatgaa tcattataat tatcaaccaa tggtacatat aagagtacgg catgtgctgg    1080
gacagagaaa agacagttga caaacactat tctacatgaa acaggaaatc ttattttatg    1140
agtcactaga aaactaactg taatactgac aggctccatc cagattatta aatactacaa    1200
aatgagaact gtttcaacaa ctattcagca taacgtttat ggacaaaatg tatatagtat    1260
atcttatatt ctatatgtat tttatcacat agtaaggaat gctgaggtgc ttaagccatc    1320
caataaattg aaaatacaaa ctttacattt ctacgtttgt cagtatacag gattctgaag    1380
atgaatcttg aactcagagt gataaatcag ttttcaagga aagccacata atccgtcagt    1440
ctggctaact gctgttcatt gggtattggg ggaactggag caggctctga taagggaata    1500
aacttgttaa aggaaacatc cagggcccct gcaactggct ttctgggcag aaccattctt    1560
gtggtggaat cagcttgcca tccttgttct aatatgcctt tcacagcctc ttctacagga    1620
agtccaacaa aggctgcaaa atcatcggcg atgattgaag tatacgcttg agagaccagg    1680
gcaaaggcgc gtctccttgt tgcatctcta agtgcttcca taattggctg gaccgtctca    1740
gaccactggt gagcgttgat ggttgtatag atcccaggga aatctctctg ccagattctt    1800
tgtcctactg accaaattcc cccaagttca gaatttgcag attttatagc aggtggtatt    1860
cttttccaaa gatatcttgc attattcatg tcattatgga gcaaatataa agctagaagc    1920
tgaccataca ctgggggtgt agcaattcct ccaggggcta ttataagaaa caaattcgac    1980
agattcctga agcattctga ttctgcccat tacatcaagc gtcctcgagc tcctggttct    2040
cgcactgatc cagcaacttt ttgaaactaa aggcgctttc cgccatcacc gccactggca    2100
tcttcgcggc cggcctcgcc gctgcaccgt ccggacaaac aaaaaccagc ccacgcgtcc    2160
g                                                                    2161
```

<210> 5613
<211> 2293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2155)...(1087)
<223> similar to gi210699 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
<400> 5613
cccgaggaag gctagactgt taagtgtcac gtatatacgg tctcaatgga gcctcaggaa        60
gctattaaac aacctcaaat cacaaaatca gaaaagtgtt gaacatttag aggaagaata       120
gaaaggaaaa aaaagcctcc aagttgtgta ttatttgtca gtaaagcaaa acaaatgtgt       180
aagcccactt atatttaata atgtctcact gaaattaaag taatagggga gagtctgaag       240
tttccacaga taaagagagt gctgtactca aatttactac aaaattaata atagtaaatg       300
taaaatatgt atttatacag ccttttgcag acttatgaac tatctcaaat tcacgaatcc       360
tattttttaa atacagtttt aagtttcaac cacttgtatc accagaattt tgagacttaa       420
ctcccatggt taagagattt ccaagctgtg ttcacacctg tagtcccagc tacactgaaa       480
gctaaggcgg gaggaccaca tgagcccagg agttccagac tagccttgct ctatttaaag       540
agcaagactc cactgccaaa aaaaaaaagg aaaaccaaaa aaaaaaattc cataaataac       600
tgggtttcta aaattccatc ttttcagtga aacagtacat cacttaaggc taaaactatg       660
tcttttatca ctgtaagtcc ccagtactgc ttacacccta cacagagtag atgctcaata       720
aatgtttgat gatttggcaa ttaatgggat aggagggaat attaatatgt gtcaataaat       780
tactctgaat attataaata ggcttatgag tatggaaaag acccaccctc aaggaatttg       840
tgatcttttc tcttacatca tactgctgtt ttcaatatgc cataattttt cttttcttca       900
gggtgggggtc agggaaacaa cacaaaatag ctgtggatgc tgtttaacaa tcagcatttc       960
ataagcagtt aagaatttct gtactttcac aaaaatgaaa aaatctctct aaagattatg      1020
tgagcccaat ctatgcccaa atcttttttt tttttttaat atagagaact gattatgttc      1080
acttgtaacc tgtcattcca aaattcttca ggatgtttaa tgttcaagtg tccatattcc      1140
cagtcccact ggatgcctgg caggatgcaa ccatctgaat gagtggaagt ataatgtttg      1200
caccaggtat tatattagga gccttgaacc cagaatatgt ctgattaagt cttttagccc      1260
aataatttgc cactgctgcc aagtctggta attttgaagg agaaagttca accataacgg      1320
ggtgatacag ggcacccccg tactcaaaaa aactttcaaa gtgctttcta aacaagtttc      1380
tctttctcct tgaatacaac gtcagtcaca actgatggca gtacaatcga tccatccata      1440
cactgctcta agaacatctt gatggtataa tatgctgtca ttcatgctct acctgctact      1500
agtttaattt ggtcaagtag ctctttccct ggagactcaa attctactag actcaaattc      1560
tattagacca aagacaaatg atctcaacca tggtcttcac ttaaaccaat cactggccct      1620
gcattataac tgagcaacaa gttggcacaa tcaccatgtg ttggttgctg gagagctatc      1680
atcagggtct tgaattgctt ctgaacctgg agactgctgg cacggattct gtcacttgac      1740
ccctactact atgccaatgc caatcagtag atcacaacag tacagtacag atgatagctc      1800
caagaatgta aattgcggat ccttcccttt gtggctttgg ccatacagca tttttagtttt      1860
gttctttcca ttaactgaag tcacgaggta tgcctccttg gaaactccaa cagttaagag      1920
attctcatgt attccatgaa ataaaaagca aagaaaaatc aaacttgtct taatgagatg      1980
gaagtgttgg atcaaacact gattgagctg ttctatgtcc tccacttccc cagtgcctgg      2040
atgtggttca tctgcatcga tggatactgt ccaaatttgc cacttggctc aaaagactgc      2100
tgcccagtga atggtaatgc agatagaggc tcagaggtat ccatgggttc ctccatgatg      2160
aacaatggtc ttgattgctg aagcgattgt ttctgattgg ttcctatgcc cagatctgta      2220
cctcccacct tgggaggctg agggaggata gcttgagccc aagtgttcaa agttgacagt      2280
gagctatgat cac                                                         2293


<210> 5614
<211> 1378
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (167)...(1165)
<223> similar to gi4200234 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

<400> 5614
```
gtcgggcctc ctccagtaag aagcgtgggc gagtagtggt gtcgccagtg gcaactgaag      60
ggagtaatgg agataaaaca aaagcgaagg cgaagttaaa gcactccacg agttccctcg     120
gattaaacgc cggagagagc gtgaatttgc ctcggggacg cctctccagg aatgtcggat     180
tgcacatcct attgtaaaat gtacttactg cagatcagaa tttcaacaag agagcaaaac     240
taacacaatt ttgtaagaag tgtgctcaaa atgtgaagca atttggggac ggccaagcct     300
ttttcagtac tgtaacataa tttcagcatt ttttggtacc aagtgtcagc gttgcacaaa     360
ttcagaaaaa aagtatggac cacctcagac ctgtgaacag tgcaaacagc aatgtgcttt     420
tgatcggaag gaggaaggaa gaagaaaggt tgatggaaag ttattatgct ggctctgtac     480
tttatcgtac aaaagagttt tacagaagac gaaagaacaa aggaagagcc tgggatcttc     540
acattcaaat tcatcttctt catctcttac tgagaaagac cagcatcatc caaaacatca     600
tcaccaccat catcaccatc accatcgtca cagcagtagc catcacaaaa tcagcaatct     660
aagtccagaa gaagagcagg gactgtggaa acagagccat aaatcctctg caacaattca     720
gaatgaaact ccaaagaaaa agcccaaatt ggaatctaag ccatctaatg gagataggtg     780
tatgtaatgt gtgccattag taaggtaatt tgccagttgc atccatttct gtcagtagct     840
ctataaatca gtcagcagat agtgggggaa cagacaattt tgtccttata agtcaactga     900
aagaagaagt gatgtcactt aagcgtctct tacagcagag agaccagacc attttagaaa     960
aagataaaaa gttaactgaa ctaaaggcag actttcagta ccaagagtca aatttgagaa    1020
caaaaatgaa cagtatggaa aaagcccaca aagaaactgt ggaacaactt caggccaaaa    1080
acagagaact actcaaacag gtcgcagcat tatcaaaggg taaaaaattt gacaaaagtg    1140
gaagcatact aacatctcct tgagaaagtc atttgtttag catttcttct tacaatgtaa    1200
atttggggaa aaaaaattct gtgaagccct taaattctgt gtagtagaaa aatattttg     1260
cacaccaaat gaattggtgt gtttcctgtt cactttgta attgatatac agcattttt     1320
aagttgtaaa acattcaaat aaaacttcaa ctggtttgaa gtaactttt aattaaaa       1378
```

<210> 5615
<211> 2473
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (94)...(1892)
<223> similar to gi3047308 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5615
```
cccacgcgtc cgcaaggagc taaggccttc agtgtcccct tccttaccca ggtttctcac      60
agaatggatt cccagcggga acttgcagag gaactgcggc tttaccaatc caccccttctt    120
caggatggtc taaaagatct cctggatgag aaaaaattca tcgattgcac cctaaaagca     180
ggtgacaaaa gtcttccttg ccacagattg attttgtcag cttgtagtcc ttacttccgt     240
gagtactttt tatctgaaat tgatgaggcg aaaaaaaagg aggtagtgct agacaatgtg     300
gatcctgcta tacttgattt aatcatcaaa tacctgtact ctgccagtat tgatctcaat     360
gacggaaatg tgcaagatat ttttgcattg gccagccgct ttcagatccc ctcagtgttt     420
actgtctgcg tttcttatct tcagaaaaga cttgctcctg gtaaactgtc tagccatcct     480
aagattagga cttcttcttg actcccgag actcgccatt tctggcccgt gaatttgcgt      540
ctgatcgctt tgtacagatt tgtaaggaag aggactttat gcaactggtc tccacaggaa     600
ctgatctcag tcatttcaaa tgacagccta aatgtagaaa aaggaagaag cagtatttga     660
```
```

                                    4141
```

```
gggcagtgat gaaatgggtg cggaacagac aaggaaaaca gggttaaaaa cctttagtgg      720
aagtgtttgg attgtatccg ttttcgcctt atgacagaaa aatattttaa ggatcatgtt      780
gagaaagatg atataattaa aagcaaccca gacctccaga aaaaaatcaa agttctaaaa      840
gatgctttcg caggcaaact cccagaacct agcaaaaatg ccgcgaagac tggggctggt      900
gaggtgaatg gtgatgttgg tgatgaagat ttacttcctg gttacctgaa tgacattccc      960
aggcatggaa tgtttgtaaa agacctcatc ctcttggtta atgacacagc agcagtggct     1020
tatgacccca cggaaaatga atgctacctt actgcactgg ctgagcagat tcccagaaat     1080
cattccagca ttgttaccca gcaaaatcag atatatgtgg taggaggact atatgtggat     1140
gaagaaaata aggatcaacc tctacagtca tacttcttcc agctcgatag catagcatct     1200
gaatgggttg gacttccacc tctgccttca gccaggtgtc tcttcggtct gggagaggtg     1260
gatgataaaa tctatgtagt tgcaggcaaa gaccttcaaa cagaggcttc gctggattca     1320
gtattatgct atgatcctgt ggctgcaaaa tggaacgaag taaaaaaact ccctatcaaa     1380
gtctatggcc ataatgtgat ttcacataaa gggatgatat attgtctagg aggaaagaca     1440
gatgacaaaa aatgtacaaa cagggtgttt atcttcaacc ccaaaaaagg agattggaaa     1500
gatctggctc caatgaaaat tcctcgttcc atgtttggag tagcagtcca taaaggcaaa     1560
attgtgattg caggaggtgt cactgaagat ggtctttcag cttcagttga agctttttgac    1620
cttacaacaa ataaatggga tgtaatgacc gaatttcccc aagaaagaag ctccatcagt     1680
ttggtcagcc tggctggatc tctgtatgca attggtggtt ttgctatgat tcaactggag     1740
tctaaagaat ttgcacccac tgaagtcaat gacatatgga agtatgaaga tgataaaaaa     1800
gaatgggctg ggatgttgaa ggaaatacgt tatgcttcag gagctagttg cctagcaaca     1860
cgtttaaatc tcttcaaact gtctaaactg tgaacaaggt gacaaacat aatagattgg      1920
gaggtggttt gtttggtgaa tggggcttta atttattctg ttttttaaaa gcttgtacag     1980
acactcatgt agaaattatt caagaagtta ttgtctaaga gatgagcagt aggtaagaaa     2040
acctcagtca ttgactcttc aatgtaatga tcagagttta aaaccatttt ctaataataa     2100
attaaatctt cagttgaaca aattattttg tgaatctgtt tcactcaatg gattgtaaag     2160
aaggctccta aatttgagtt gtttgctaat catttcattt gcatcattag ggtatcctta     2220
aactgatttt ctattacaat tggaagtgga gaatatgtgc atctacacta aaaaaatgtt     2280
taagatatca aaaacctctc ctcgtgcttc aaaatgacag gaatcctgtg cattatacta     2340
agaattacat gccataagat gactgacttc agaaatccta cttcagaagt gtaataaatg     2400
gatgaggaaa tcgtttgatg gggaaaagtc tcttgtaagt aaaagtagtc aaattcaaat     2460
ggcaaaaaaa aaa                                                        2473
```

```
      <210> 5616
      <211> 1894
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(1895)
      <223> n = a,t,c or g

      <220>
      <221> misc_feature
      <222> (51)...(689)
      <223> similar to gi5566244 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters




      <400> 5616
cctcctgaga gttcgccggc ccgggcccaa tgggnttgtt ccaaggggtc atgcagaaat       60
```

```
acagcagcag cttgttcaag acctcccagc tggcgcctgc ggaccccttg ataaaggcca       120
tcaaggatgg cgactgaaga ggccttgaag accatgatca aggaagggaa gaatctcgca       180
gagcccaaca aggagggctg gctgccgctg cacgaggccg catactatgg ccaggtgggc       240
tgcctgaaag tcctgcagcg agcgtaccca agggaccatc gaccagcgca ccctgcagga       300
ggaaacaagc cgtttacttt ggcaacgtgc aggggcanc ttggactgtc tcctgtcact       360
gctccaagca ggggcagagc cggacatctc caacaaatcc cgagagacac cgctctacaa       420
agcctgtgag cgcaagaacg cggaggccgt gaagattctt ggtgcagcac aacgcagaca       480
ccaaccaccg ctgcaaccgc ggctggaccg ctctgcacga gtctgtgtct cgcaatgacc       540
tggaggtcat gcagatcctg gtgagcggag gagccaaggt ggaatccaag aatgcctacg       600
gcacaccctt gttcgtggcc gcccagagtg gacagttgga ggccttgagg ttcttagcca       660
agtacggggc tgacatcaac acgcaggcca gcgacaacgc gtctgccctc tacgaggcct       720
gcaagaatga gcatgaggag gtggtggagt ttctgctgtc acagggtgcc gacgccaaca       780
agaccaacaa ggacggcttg ctcccgctgc acatcgcctc caagaagggc aactacagga       840
tcgtgcagat gctgctgccg gtgaccagcc gcacgcgcat acgccgtagc ggcgtcagtc       900
cgctgcacct ggcggccgag cgcaaccacg acgaggtgct ggaggcgctg ctgagcgcgc       960
gcttcgacgt gaacacgccg ctggcgcccg agcgcgcgcg cctctacgaa gaccggcgca      1020
gctccgcgct gtacttcgcg gtggtcaaca acaacgtgta cgccaccgag ctgctgctgc      1080
aacacggcgc cgaccccaac cgcgacgtca tcagccccctt gctcgtggcc atccgccacg      1140
gctgcctgcg cacaatgcag ctgctgctgg accacggcgc gaacatcgac gcctatatcg      1200
ccacgcaccc caccgccttc cccgccacca tcatgttcgc catgaagtgc ctgtcgctgc      1260
tcaagttcct catggacctg ggctgcgacg gcgagccctg cttctcatgc ctctacggca      1320
acggcccgca cccgccggcc ccgcagccct ccagcaggtt caacgacgcg cccgcggccg      1380
acaaggagcc cagcgtggtg cagttctgtg agttcgtatc tgccccagag gtgagccgct      1440
gggcgggggcc catcatcgat gtcctcctgg actacgtggg caacgtgcag ctctgctcgc      1500
ggctgaagga acacatcgac agctttgagg actgggccgt catcaaggag aagaaccact      1560
tgttctggaa aactcaccac ttgacttcag agctttctct ccaaagacta agatgaagac      1620
gtggcccaag gtaggggggta gggggagcct gggtcttgga gggctttgtt aagtattaat      1680
ataataaatg ttacacatgt gaaaaaaaaa aaaagggggg ggccgtttta aagaatcaag      1740
ttttatttcc ggggggctggc aaggtaaaat ttttttttttg gggcccccaa aatcaatttc      1800
cgggcccggg ttttaacaac gtcgggaggg gaaaaccccg ggggttcccc atttaattcg      1860
cttggagcaa aannnnnnnn ggtggannat tcag                                   1894
```

<210> 5617
<211> 2699
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2700)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (452)...(1230)
<223> similar to gi5912212 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5617
gttttctcca catggaaact tattggcgct tgcctcacga gacagaaccg tgagactctg   60

4143

```
gattcctgat aagagaggaa aattctcaga atttaaagct catacagctc cagttcgaag    120
tggagacttt tcacctgatg gccagtttct agctacagct tctgaagaca aatccataat    180
agtatggagc atgtatcgcc agcgcttcct gtattccttg gatcgacata cacactgggt    240
acgctgtgcc caatttncac ccgatggaag actaattgtg tcatgtagtg aggataaaac    300
tattaaaatt tgggatacca caaataagca atgtgttaat aacttctcag attccgttgg    360
atttgcaaat tttgtggact ttaaccctag tggtacatgc atagcttcag caggttctga    420
tcaaactgtg aaagtctggg atgtaagagt gaacaaatta ctacagcatt accaagttca    480
cagcggtgga gttaattgca tatcattcca tccttcgggt aactatctca tcacagcttc    540
ttcagatggt acccttaaga ttctggacct cttaaaagga aggctcatct atacacttca    600
aggacatacg ggacctgtct ttactgtttc attttcaaaa ggtggagagc tatttgcatc    660
aggaggtgca gacacacagg tcttattatg gaggactaac tttgatgaat tgcattgtaa    720
aggtcttacc aaaagaaatc tcaaaagatt acattttgat tcaccaccac atcttcttga    780
tatctaccca agaacaccac atccccatga ggaaaaagtt gagactgtag aagattttt     840
tcttcatctt ttgagattaa tccaaagctt gaggtaatcg atttgcagat ctctactccc    900
cctgttatgg atatcctttc ttttgattct accacaacaa cagaaaccag tggtaggact    960
ctgccagaca agggtgaaga ggcctgtgga tatttcttga acccttcctt aatgtcacca   1020
gaatgtttgc caacaaccac gaaaaagaaa acagaagaca tgagtgacct cccctgtgaa   1080
agtcaaagga gcatacctct cgctgtgact gatgctttag agcatattat ggaacaactc   1140
aatgttttga cacagactgt ttcaatcttg gagcagcgac tgactttgac agaggataag   1200
ctgaaagact gccttgaaaa tcagcaaaag cttttcagtg ctgtccaaca gaaaagctga   1260
ataaaaaatt cattttcatt tgttgggcag aggcccaata aatgaacaaa tgtacataca   1320
ctcaggaagg tagtacaaga tactccatac aacacaacca tgtgctattt atcatggcat   1380
ttcttaaaag ggtgagcaac agaacaaaag gcagaaaagg catacctaag gactaattta   1440
aacacatatc aatgtgaagg actaatttaa attactatca tttatgattg cagtaataaa   1500
gtgataagca ttcaagcaac tctgtatttt ccccatatta ttttaaatgt ccattttcat   1560
ttataggcca aatcctgcca ggaaagtaac cagatctctg gatttcactg ttaagtcatt   1620
tcagattgac catattcaga cagtcatggg gtgaaataat tcacttacct ccaaaatagc   1680
atcctatatg ccaataatga gttattgatc tgactagttg tatgtctttc tgttcaaaat   1740
agaaattatc ctttcttact aatgccttga aagaatgaac aaataaaaat tcccagacca   1800
cagaatttcc acagcaagaa tacacttatt ttaattaaca atagcacaga tatagcatag   1860
ggcagtgggt tttttagtta atttatggcg tactttgttt atccattggc caacctgaag   1920
gaaatgaaac tcacctatct ttctatcaca gatgaatgtg ctagatgaat gatttgggtt   1980
gtatctgatc atggttcaca aaaattatgt tagtgtgttt tcagtatgct aaaaagtcag   2040
agtgatacaa aagtgatatt taaaaatata cacacatgta tgtacacatg cttcagaaat   2100
attgttgctt agggtgattt gggcagctaa atagtaagta cttttttaaa ttttttgcatc   2160
atcatcttcc tatttaatga attgtgattt aaaacaaaat gaaaataagc caggtattct   2220
aaaagatcct ggatacaaat taagaatttt gctttatttt aaaccaaatt gagattaaat   2280
tgaagaaaag caagcaaatt aatttcagct tgattatcaa cctgtatcaa gaacaaaaat   2340
gggaggaggt gtccacattt atggtgtgta taggtaacat ggggaaaatg ctattctgtg   2400
ttttggaaaa gaagaaatag tgccgtccta tttatttcta tatttagaaa tttttctcaa   2460
agaaatttca attgtatcta tgagatgggt ttctaagtat cttattgtgt gttataagtg   2520
ccttttaata tcatactaag tgtgagcttc tggacatttt caagagctta caaaaactaa   2580
gtggcattgt attttttataa ccccattgag aagactaagt aagaaatgaa atgtcctatc   2640
aattttattt tgtcatgctt caaacaataa agacatttct gctttaaaag aaaaaaaaa    2699
```

<210> 5618
<211> 1607
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1309)...(472)

4144

\<400\> 5618

```
ttaaagaaaa tactttatta tgtcatgaaa aaaaaggcct caaccaacta gattcatact     60
tgatttgaaa aaaaaatgga aaatttatta attagacagt atgtgggcat cctgttccac    120
atgggaatga gaagatgcta taggttctct aagtattgca cagtctgaaa aaataacaaa    180
aaaagggaag gggaggaaaa aaaaaatcac atgatattgg gaaccatctc acattatgaa    240
taatctacca agaaacattt aaaaaagaaa accctttgtt tctacagtag ctttaagttt    300
atagttcttg gaatgactgt attccattga agacatctca gtaacaggaa gctgttttag    360
caatcccatg tgcaaatatt aataaaaaat atataaaata atgcaattca tctcttgcct    420
tcaccccggc aatcatgaca tttctgagaa ctgtttttgct tgaaaatggg ttaagctgta    480
agttttgcct gaagctccat ctctgcagcc cgtttgagtg caacatccac tagaagctga    540
aatccactga agtcctggtt gaggtccggt ggagtagggg gaggagtgtt gaaaagacca    600
ctctgtgtat tcgtacttgg tccagatcta caagtgtccc tctgggtaac atgaaaagag    660
gtgtcctgtg aaagtttttg gcccgcctat ctgcctgtaa tatctgtgtt ttgtccccac    720
accgaccgac tggcagagag agaaagggac aatctttcaa tggcagtcac agtggtatgg    780
cagatcactg atggacgagc caaaactgat ccccagggat gaccggctta ggagacagtg    840
gccctcccta gggttgggtt ttggccccag ctgtacagga atgaaatggg gtctcctcta    900
gagctggcat gaagtttttg atgcccatca cggactccac agagctcgtt tcagaaatct    960
tggccccacg gcgggaaatt gtgaactgat ttggatcttt gccatccttt ctcagcatgt   1020
cagggaggag cctgcggcgg gcgttgatga accagttaca gacctgtagc gtagacaggt   1080
gtgtttgctg ggacagcaac gctttttctt gctctgaagg ataggcattg taacggtgct   1140
catacagcca atcccgaaga atctgcacag actccttggg taggttgccc cttctccttc   1200
tcttgcctga gccagcggat gaagaaaggt ccaagggaat gtccatgctg tcctcatcct   1260
cagtctcact gccagatgct gcaacaatac ctttcttgcc tttcattctg gatctcccct   1320
cccagcgcga ggcaaggcgg gggtctggag gggccaggag cggggacaca ggggataagc   1380
gaacgtctcc ttcacagccg actctcccgt aacttgtagg acgtgctcca gccgttattg   1440
ctaaacagga cgctctgatc ccaggcgccc gctccttggg tggaattcaa gtgacacttg   1500
ggcttcctcc cgccgggatc ttctggcagc cggccggggg ctctccctcg cccaactctc   1560
tcccctcccc tctccgctcc tttgttccct gctcctgctc ggcgcac                 1607
```


\<210\> 5619
\<211\> 1529
\<212\> DNA
\<213\> Homo sapiens

\<220\>
\<221\> misc_feature
\<222\> (1519)...(728)

\<400\> 5619

```
ctgtattgtg caaatccact gaatatgttt gttagttcca gtactatttt ggttgagtct     60
gtgattttct acacagaagg tcatgtcgtc tacaaacaaa tgtaatttta cttctttctt    120
tctgatttgg atgagtttga tttcttttgc tatttaattg ctctggctag gacaggcagt    180
```

```
attgattgaa tagaaggggt gagagcattc ttgcatcatg tgagatcgta caggaaagca      240
ttccattttc cctgcttggt tatttactca tttgtcattt catggatgtt ctttctattg      300
ttgaggtaaa tttccttttc tattttgttt aggatttcta tgatgactgg attttgaatt      360
ttgtggaacg ctttttctcc atctactaag gtgatgtggt tttaatcttt cattctgttc      420
tagtggtata taacattgat ttgcttgaat atgttgaacc atccttgcat cccagaaata      480
actggcactt gaatatctac atttttttaa tatcctcttg aatacagttt tctaggacaa      540
gggatcttca agaagttctg gaaaaataca tattatgaga aaattgtgca tgaatttcac      600
aatttttgca ccaaaataaa ctagtgctag tctgttataa catgtctgaa caggctctag      660
tttgatgccc tcaaaaggat aagacatgag tataaaaaga gactccatca aagcaatata      720
aattctgatg aaattgaaac aagaagaaac attaaattta tgatgagacc agatgcagtg      780
gctcaggcct gtaatcccag cattttcaga ggctgagaca ggtgggccac atgagcccag      840
gtattcaaga ccagcctggg aaacgtgggg aaatcccctt ttctacaaaa aatacaaaaa      900
ttagctgggc atggtggcac atacctgccg tctcagttat tgtgaagtct gtgcagggag      960
gatggcatga acctgggagg tcaagattgc agtgagctat gatcatgcca ctgcactcca     1020
gcatgggtga tggagagaga tactgtctta aaaaaagaat acttgtggta acgtttgggt     1080
agaggaataa tgaaatcatt gatgctttat aaaaaggtta tggggacaat gcccaaaaga     1140
aataaacagt ttgtaaacgg ataacttatt ttgagttagg gcaagacaat gttgacagtg     1200
atgcatgaag cagcaggcag accttccaca tcattttttac agaaaaaaaa attaatcttg     1260
ttcatgctgc aatgaagagg actgacagca aacagcagaa acatagtcag aatttagaga     1320
acagcctggt taacatggtg aaacaccatc tctagtaaaa atacaaaaat tagctcagca     1380
tggtggcatg cgcctgtaat cccagctact caggaggctg aggcagggga atctcttgaa     1440
cccaggaggt ggaggatgca gtgaactgag atggcaacat tacactctag cctgagcaac     1500
aagagcaaaa ctccatctca aaaaaaaaa                                       1529
```

```
<210> 5620
<211> 4494
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4482)...(3139)
<223> similar to gi4240263 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```

```
<400> 5620
tttttttttt ttgaagtttt tgctataaaa catttaatgt taacctacaa tacaatgtaa       60
acttttatga aaaaaattta aagtacacta gatttcttca gtaaattatc acatgactat      120
tcaggcgcag tacaagttgg ggcactgcat cctttgtgga tggatttccg ttgctgtgtt      180
cctcacaagt cctaaaaaaa ccagttgtag agcggagctc cttgttcaag caccggataa      240
tgatgcccct gattttgcat tctgggggtt atcgctcctt ctcagtcatt ttctgaaact      300
ctttgcttgg ccttggcacc attagcaatt ttcacaactg ctcaattgaa ggttctaggt      360
tcttttagc ttagttttta agagacaagt gttatcctct ggccatctct tattcaaata      420
tcatggtgga ggcaagcaag gagaaagaag tatttgctag aggaaattct gcagaagtgg      480
aagaaaagac cagaagggct ccactgaggg tacaaatatt caactgactc caatcgagtg      540
tctttgcttg gtcacttccc atggttattc agctcaatct acaacttcag tcgtgggagt      600
gcagaacaaa acttgaaaca agtgctttta gttgatgatt tgccatttgg aaacaacagc      660
tgaaatatcc cagaggtgat gtggaaacaa gagcaaatgc ttgcagatca ctggcttctc      720
agtgtcttct ccctcgcagg tctcatcaaa atcccaaaag tccttaggag taacacagat      780
tgtactggca ttaagtgaca aaatgtgcag cctgtatttg actgaggagg aaaggaaatg      840
```

```
gcacctaggc agcagcgcta gggtcagcaa ggagaccggc ctagggtctc agtaaagcag      900
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aagtaaatgg gaaggccgcc ctaacagttg tactgacata aagggagacc cttcttaata     1020
ttctggcagc tgacttcctt cactgaacaa ctattatcaa aaggcgagag gcataaagtg     1080
cacactgtag aataagaaga gactgaatta tgatggaaaa aaaaaatcgt aacttcccca     1140
aagaggtgtg gacagtgtac ctagcctcac aaaggtcctt aataccctcc tgtgtgctgc     1200
cagggaacag ctgtgaattc cagatgggga ggaaggctct gacttaagtg gaaaaattcc     1260
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gctctccaag ttaatttctg tggggtgcct tactctgcca tgtgggattt accccaacaa     1560
ctgaggactg cagtggatag taaccatata attgctacca aaaacagtgg tccttaggtt     1620
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atctgaaccc cccgccctca cagcattcta ggaactacag taacgtcagt cggttgcagt     1740
ggtacaacga gcctgcacca gtctagctac ggaacacttt ggaatacttg tcagagcgca     1800
ctggcatctg ttaatacatg gcctgaccca tgtacccatt accataaact caaccacaga     1860
cgagacatcc agaggttaaa aaaaaccctа ttacttcaac atagcaatag agagaaagga     1920
taaaagctgc ctccagaagg tggctgcatc agaaatgaaa atgtgccttc caatagatta     1980
cacaggctgg gagttctgtc ttggctccct tcaaggcctc tggttctatc cttaaaacaa     2040
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ggccctgcta gtcctttgga aaggccccag gcttggcaat tcaggaaagc ccagggctgg     2160
ggggagcagc atgcacatgt cagaagagga atgaagagct gctatccttt ggttcagacc     2220
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tccaccacat acataggtgt atctttacat atacagcctt tgtggggcca caaacccaga     2340
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ccaaaaagaa tgacctctct gggaacgtga gagggacaat ggcagaaata agcacaaacc     2460
agcccggggc acttttatta cactattgtg ggctaaggag cccagggcat aaactcatgg     2520
gtttaaagaa ttggctcttt atcaaataaa ggaaaaaaat atatatatat acctatgtca     2580
gcctcattcc tttggtcatt acaaaacaga aataaaagtt attgaaaact tgtgggcagt     2640
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ggagaagcaa gtcctcagga gatgctgcaa gtagctggtt gatggaggtt tttcactttt     2760
atttttcata aaagcaagaa tgaatgagaa ctagtgggaa tgtccccttc ccagctggga     2820
caatggatgg gtcgaaggtg aagagtctct gttcactgga aggtgcgtgc acagaggcca     2880
caggaagggt gggcttgcca agcgggtacg tttgttgcta accttgcgcg cacacacagg     2940
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aaaaaatatt gtattataat aataataata atatgaattt ctctctcttg ttttttttt     3060
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gagtccggcc ctcctgtagc gtaggggat tgggccacct cctctgaagg gatgcagggc     3240
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gagaataaga agtcgtggat tactgttaga gactgtgaaa agtggaatcg tctctctact     3360
cgagaatcat taggtaattt gaagatgatc ttgacacttt cagggtcatc aggggaaggt     3420
tcagggggca ggcattccaa cttcctttcc ttttcctcct gtaaattctg ccgccgtctc     3480
tcctctgcca acttttgctg ttgcacctcc tccttcttcc gccgcttacg ctcccgctcc     3540
tcccgtttct ttctttcttt ctcctggtca gctctgagag aggccaggta ggcctcatcc     3600
tgctgttgtc tcagcacttg ggtctggttt ctttcttccc tttctaggcg ttctgacacc     3660
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aatgaggcct tctagccgtc ccacccacag gtcattccct tcgatccttc agcataatca     3780
tggccaggaa tggataggtg ttctctcgta aagcctgtga gaccctgtat ccctcaggtt     3840
tgtttgtaga gcatgcccag aagagcatcc tagtgtttat tagtgaaata acttcaggtg     3900
cacagagtgt gttgcgacaa aactcatcag agtcctggtg atcatctcca tgaagataaa     3960
ccaaaagaaa gcgaagctcc cttttggcat cgttaagtgc ctggctgtac gttccctggt     4020
agaagacagg gtgtgccctc ccatatttct cttcaaaaga gtgcataaat gaaacaatgt     4080
ccccaacggg gtcagtgacc cggctgcgag ggtcaggccg tataaaacga agagcaaacc     4140
taaatatatc aagtatcgtg taataggtaa accggaatgg aagcattatc aagtaataac     4200
cccatccaag cagccccctt ggttgaggtc ttgagacaac atagctgtag atcctgtggt     4260
```

```
cagctgtatt aacctgcagg ggtcgtgatg gaggtgggtt gaaaacacta ggtacgccct    4320
cttgctcatt caatctgtcc tgtacagcag cctctatgtt ccagttatgc tgttccaagg    4380
tatggcgaca ctgatccata gattcgatgc cagtgagatc ctgaaactgc agcagcttct    4440
ctgtctgctc ctgggttaga tcccgctcct caggcgccgc cattttgccg ccgc          4494
```

<210> 5621
<211> 1719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (412)...(286)
<223> similar to gi3249110 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5621
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taatatgttt ccaattcact gatttaaagg catatagatt taattttttaa atacactttc   120
aaagctgtta cgcacagttc catagtccag gtggtcaatt tcttcctctc aaagttagaa    180
aacacttgaa ggacacggga ttcaaaaaaa cctttattaa tttttaacac tttcttttttc  240
cttccttagg atcttgtttt ggtctagcag atcgagcaaa ctgaaccacc atgggttttc    300
caaaaaagca catatccatt agcttccttt aagggctttt gctgctgctt tttcattagg    360
aagtccaatg aaagcttgtc ctttcatacg accttctttc atcaaacgta tatcaaacat    420
gatccgctgt gtttctgatg aaaagtcaac atatcttcca aaaatatatt taaggtcctt    480
ttcttgaaca tgtttagcta aattctttac ataaattcta cagtttggtt cacccggttc    540
ataacttctg aaaactgaaa gtgtttccat ttcttctcta gaaattctgc ccttttccaa    600
ttcccttcta gaaatacatt gtgaaggcat ttcatcagag tcttctttaa tctcctctgt    660
gatgtccaaa ttaggtttgg ggaagatttt tccaaatcct atattggatg catcaacttc    720
agtagcaggt aaatcatgat ttttttcctc acaattttgt tccttttcta aatctttctt    780
aaatgcagct ggcatgtcgg tagatatatg gaattcaatt cttttgttac ctacaggttg    840
tggttggtca aatacatctg aaggtaacag cgctggatgt aaactgctgt gtgaaggaca    900
caaaggtgta ttcaacatat cctttatttt tctctttttt ctcacatggc gctgctttat    960
tgttttaggt cttttgggct gaagatttgc tagttccatt aatttgttca ttctctgtcg  1020
gtcctcatca tcagtgcttt catattctga ttcttcacta gataattcct catcctcgtc   1080
tggcaaagga ggttcctcag gtggctgagg agatgtgggt ggaagaggtg catgcaatgg   1140
catatagtct tcatacatgg gaggtcgcgc agtaattggt ccaaaaggtg tgggcaaatt   1200
cattttattc ataagatgaa ggacctgtac atagaactta ggcacgcttg ccaaggcatt   1260
tacaatgttt gctaggattg tgctggaagg tggtgggtac atatacttga ggcatgaatt   1320
taaaggaaaa gtcagcccat ggtttggtgc aattccattt tctactgtta aataaccaag   1380
ttctttttttt tcttttttcct tccttaggat cttgtttttgg tctagcagat cgagcaaact  1440
gaaccaccat gggttttcca aaaagcacat atccattagc ttcctttaag gcttttgctg   1500
ctgctttttc attaggaagt ccaatgaaag cttgtccttt catacgacct tctttcatca   1560
aacgtatatc aaacatgatc cgctgtgttt ctgatgaaaa gtcaacatat cttccaaaaa   1620
tatatttaag gtccttttct tgaacatgtt tagctaaatt ctttacataa attctacagt   1680
ttggttcacc cggttcataa cttctgaaaa ctgaaagtg                           1719
```

4148
```

<210> 5622
<211> 5769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (344)...(2898)
<223> similar to gi5689541 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5622
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tttcgtcagg aatttccctt caaggtagca ggagatgaac gcgtgctgct ccaggatttt      60
acagaactga ttctgcagca aagacaaatg ttgcctgtat ttgccagata gtataaacag     120
gagcaaaagt tgcacagcta aaccaggggc tcattcccag gacagacatg cagttatgga     180
ttccgaaaga caagtcaagg acactgatga cattgaaagt cctaaacgca gtatccgaga     240
cagtggctac atcgactgct gggattccga gcgcagcgac tccctctctc ctcctcgcca     300
cggcagagat gattccttcg acagcctgga ttcctttggc tctcgctctc ggcagacgcc     360
ttcaccagat gtagtcctca ggggaagcag cgatgggaga ggaagcgact ctgaatccga     420
cttgcctcat cggaagctgc cagatgtgaa gaaggatgac atgtctgcac ggcggacttc     480
ccatggtgag ccgaaatcag cagtgccttt taaccagtac ctccccgaaca aaagcaatca     540
gacggcctac gtccccgcgc ctctgagaaa gaagaaagca gagagagagg aataccgcaa     600
gagctggagt accgccacct cccccgctgg gttggggaag aaggcccttc aagattacgg     660
tccgagaact tcctgtgtct gaatgacgca gagagcacca gcatgtttga catgcggtgt     720
gaggaggagg ccgcggtgca gccgcacagc agggcccgcc aggagcagct gcagctgata     780
aataaccagc tgagggaaga ggacgacaaa tggcaagatg acctggctcg ttggaagagt     840
cgtaaaagaa gtgtttctca ggacttaatc aagaaagagg aagaaaggaa aaaaatggag     900
aagttactgg ctggagaaga tgggacaagt gaacgaagga aaagcatcaa aacctacaga     960
gaaattgttc aagaaaaaga gcggagagag agagagctgc atgaagcata taagaacgct    1020
cggtcccagg aggaggcaga ggggatcctt caacagtaca ttgagaggtt caccatcagt    1080
gaggctgttc tcgaacgctt ggagatgcca aaaattctgg aaagaagtca ttcaacagag    1140
ccaaatttat cctccttcct gaatgacccc aatcccatga aatacctgcg gcaacagtca    1200
ctgcctccac ccaaattcac tgccactgtt gaaaccacca ttgctcgtgc cagtgttctg    1260
gataccagca tgtcagcagg cagtgggtct ccaagcaaaa ctgtcactcc caaagcagtg    1320
cctatgctga cacccaagcc ttactcccag cccaaaaatt ctcaagatgt tctgaagacc    1380
tttaaggtag acgggaaagt cagtgtgaat ggagagacgg ttcatagaga ggaggagaag    1440
gaaagagagt gtcccacggt ggcacctgcc cactccttaa ccaaatccca gatgtttgaa    1500
ggtgtggcca gagtgcacgg gtctccactg gagctgaaac aagacaacgg tagcatcgag    1560
atcaacataa agaagccaaa ctctgttccc caagagctcg cagcaaccac tgagaaaacg    1620
gaaccgaata gtcaagagga caagaatgat ggtggaaaat caagaaaagg gaatatagaa    1680
cttgcctcat cagaaccaca gcattttaca acaactgtga ctcgatgcag cccgaccgtg    1740
gcctttgtgg aatttccctc cagcccccag ctgaagaatg atgtgtcgga agaaaaagac    1800
cagaagaaac cagaaaatga aatgagtgga aaggtggagt tggtgctgtc acaaaaggtg    1860
gtaaagccaa aatctccaga acccgaagca acgctgacat ttccatttct ggacaaaatg    1920
cctgaagcca accaactaca tttgccaaat ctcaattctc aagtggattc tccaagcagt    1980
gagaagtcac ctgttacgac acctttaag ttctgggcat gggacccaga agaggagcgc    2040
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ggagcaggac aagcctgaaa gaagagttgg gaaaaggccc aaaaggaggt ggaagaggaa    2160
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gacaatgaat aagatagacc tgggaaactg tcaagatgaa aaacaagaca gaagatggaa    2340
gaaatcattc caggagatg acagtgactt attgctgaag actaggggaaa gtgatcgact    2400
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gaatatgggg ttgtaatgat cctgaatagc tcaaaaaagg ttttagcatg gtcaaacagg    3180
cttatggttt aaaatgtgtt attctcttct ttgggaatta gctaaatgat gcaataaacc    3240
tgttttgttt tagaatgtct aggaattaaa cactttatgt ttacagaatt gagctgcaga    3300
aagtgcaaga catgccaatt tgagacacac ggtcttctaa gactgaagga taaatttaat    3360
gcatttcaga aactaaacat cacagcaagc tctatctctg agctataatt tgttttttaat    3420
gcaaagacac tagtttgata atatatactg taatcctgaa acatttgtgt tacttacctt    3480
tggaggtaga aattataccaa ataaattatt gcaccgttag tattagattc tgtgtacctt    3540
ggaagttatg tcattaatat aggctggttc atcaaataaa gcaaaacctt gcaatatcag    3600
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gtcatcattt ccaaagtcat tatcaaaatc tgtgaggaag tttaatcttc caaagagtca    3720
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tagattgatg tagtcataaa aggggggtcaa gtagatgttt ttctgttatg taagcaataa    4380
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tgaaggagag atgaagtcac ttccccaagt ttccaagact tctcatggag gtgtttgctg    4680
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caactccatc cgttatgtaa ggattacatg aatattgcac attcccttct ggtttcacaa    4980
acccatttat acatatttct tagtgaggct cattgtacat gtattgaagc tagaatcgag    5040
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gtcaccagca cagaataatc tccaacattt tctaaattct aattgccaac tgtttctatt    5160
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aacaggtgag gcaagtgagt gatttattgt tcctgaggaa gtatatctga tttttttttct    5400
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agttatctat acacagtgta agatttaaca aactgaaatg atccacctca tatgtgagtc    5580
cgtccaaaag atgttactgc tctgggtggg ccagtgttct atatcggtta tactaacttt    5640
catttaaagt atttattcta aaatgcctct gagaaacagt aaaaaataaa aacaacaagt    5700
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aaaaaaaaa                                                            5769
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4150

<210> 5623
<211> 2478
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2479)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1900)...(889)
<223> similar to gi5262615 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5623
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ttaggaaatg tgggtttgcg caatcaccag gccaagcctg ggggtcctcg gggaagctac   180
tcctccaggt cacctgccag gtggatgcac ttccttgggc aatgggtgac cctcccagga   240
caaggggaac cagcagggac tcgatggcac cacacagcag ccacctgttc tgacaatgtg   300
acacagacca actaatgcca gagcccagga gaagccacag cagagctgcc tgggttggtg   360
tcagagcaac aggcagaagt gactgtgccg cccgtgggct gtcatccacc ggtggctact   420
gtgtcattct ggaaaaacta tgatgccatg agactctgag aaaccgaatc actgcagaga   480
caaactcata aaaattaaaa ccaatccata aaattgtatc tagaaactct gtccctggtg   540
ccaataagca gcaaagtcaa caaagagtaa aaactaaaac ttcaacacat tattaaaaag   600
caaaactgga ctcaactaca atcacttctg gttagtccac tagtgaaccc aaaagtgact   660
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ttaagagaac agttcattaa aagtttctgt ttaaaaagaa aaggaaaggc ccaaatagcc   780
atttcaaggc agagcaggtg aaaggcctgg aacactcctg tgcgctcact gtcggctgct   840
gaacagggag cccaaggcca gcaggatgga gggtgtgacc gagggcttgg aggaggtggt   900
gtactggatg acatactctg ggtagacctg gtgtttctca aagatcacaa agatggaggg   960
gtcggacaca ctgttcacgc agctatcata gaaggcgttg ctccagccct ccttggccgg   1020
cggacggaca aaggaggcat tgcccctgac gaactcgccc accagcaccc gggccaggaa   1080
catcgtgtgg gtctgcgtgt cggatttgct gtagtggtgg gaatatgcag catctcgggc   1140
aaagtagctc cccttgccgt aggaagtgcc atgaacacca cagacccgcc agtcaaagtt   1200
ctgctggcag atggcgtcca caaaaatggc gctggtgccg tggaacagct gccgctcgtc   1260
cacggccttc cctccgttct gcttctgcat ctgtcctttt tgccactggt agacttccca   1320
gagggccagg ttctgtactc gctcaatctt ctgaacaaag taaaaaggca gcgtgcggtt   1380
aaagaggttc cagaccttct gatactcttc cgaggaagaa ctaagggtga tcttctgaaa   1440
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tgtacagtag gccaggtagg ccttctccac gtcgctactg ctgacagtgg tcacagggtg   1740
caccgtgccc tgtcttccat attcctgcca agaaccaaac tcatcactcc agtaccaaat   1800
ccagtcagtg gtgaggatga agtgtggagg tttggtgaca gaggaggccg tggagaggcg   1860
gcgagcctgg gtagcaccgt aagtcatggc gttaaagttc agacaatgag agtgaaaggt   1920
actggctgac tcagagcaca ggatcctttc tattttggga ttgcaatatg cctcttcaat   1980

```
aagttccatg ttgtccaaat cctcccattt gcctctatcc aagaattgcc atcgatacgg   2040
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caaacagatc tgatcaccct cctcctggct aagagtgttt ggggacacag aacctgaact   2160
gtcttttctt tcagaagtcc cctgtgggac aaaaagagga ggcactctgc tgggggcaga   2220
gctcttattc ttgatgtcat gtgcatttct ataaatggta ggcagcctgc tcaccaggtc   2280
tgagctcata cccaacttct ccaatttttc cagattctca gaattagaga aatcatggga   2340
tctcttacag ctagtgccaa acttgcattc cccctgtaaa aaatactggc agatatggag   2400
catgatgcac tgcttttgaa aggcacaaga gccgtgacga aatcgtcgac ccggnnnttc   2460
cgggccggtt ccgaacgg                                                 2478
```

```
        <400> 5624
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ctgtctttga aggaaacgtt cgcaacgttt cctgaaagtc ctcggttgaa gtattttatg    180
cctcctcagc ccttgtgttg tccaatttgg gaagccagtt gtttccatcc tgagttccag    240
aagtaggcat tccccgtgta caaaaaaagg gtgggaagga atgaggaaac atcttcacac    300
caggcaggga cacaaatagg tacatgtgga aatttccaag gcattatggg tttacagaga    360
tgattatttc atcagacatt ccatctctgt atctgcagtg atagtacgcg cctggattac    420
tcacaaatac aggggcagag actggaatgt aaatgggag gaaaacttgc tccatgctgt    480
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tcaagtgtgc cttgagtgga acatgggtta tatttggaac cttcgggcaa acaggattcc    600
acagtgtcct ctggaaaatg atgtggttgc cctgcttggc tttccttatg cctccagtgg    660
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tcgacgccag aggatggatt acccagtgtt tactgtttca ttgtggcttt atttactcca    780
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aggggaagac cttgctgtaa aaactaaatt catcatacct ttgaaggagt ggtttcgact    960
ggatatctct tttaacggag gccagatagt agtaaccact agcattggac aggatttgaa   1020
aagctaccac aatcagacca ttagcttccg ggaggatttc cattataatg acacagctgg   1080
gtacttcatt attggaggga gcaggtatgt ggctggcatt gaagggtttt ttggaccct   1140
gaagtactat cgccttcgca gtctgcaccc cgcccagatt tttaatcccc tccttgagaa   1200
gcaacttgct gaacaaatca agttatatta tgaaaggtgt gctgaggttc aagaaatagt   1260
atctgtgtat gcatctgcag caaagcacgg gggcgagaga caagaagcat gccacctcca   1320
caactcctac ctggacctcc agcgcaggta tgggagaccc tcgatgtgca gagccttccc   1380
ctgggagaag gagctgaaag acaaacaccc cagcttgttc caggcattgc tggagatgga   1440
tctgctgacc gtgccaagga accaaaatga atctgtatca gaaatcggtg ggaagatatt   1500
tgagaaggct gtaaagagac tctctagcat tgatggtctt caccaaatta gctctatcgt   1560
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```

```
ggttggaggc caggggagtg agaggctgtc ttcaatgaat cttgggtata aacactacca     1740
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caccaagaca ccccttgacc agcacacact gcaaggagat caggcatatg ttgaaacaat     1860
tagactaaaa gatgatgaaa tactcaaggt acaaaccaaa gaagatggag atgtctttat     1920
gtggttgaag catgaagcta cccgaggcaa tgcagcagct cagcaacgat tggcccagat     1980
gctgttctgg gggcagcaag gtgtggccaa gaatcccgaa gcagcaattg agtggtacgc     2040
caagggcgcc ctggagacgg aggatcctgc gttaatctat gactatgcca ttgtgctatt     2100
caagggtcaa ggagtaaaaa agaacagacg gcttgcctta gagctgatga agaaagcagc     2160
ttccaaggga ttgcatcagg cagtcaatgg cctgggatgg tattaccaca aattcaagaa     2220
aaattacgcc caaagcagca aagtactggt taaaagcagg aagaaattgg ggaacccaga     2280
tgcgtcatac aatcttggag tcctgcattt ggatggcatc ttccctggag ttcctggaag     2340
gaatcaaact ttagctggtg aatatttcca taaggctgcg caaggtggac acatggaagg     2400
gaccttgtgg tgttctctct actatatcac aggcaacctg gagacattcc ctagagatcc     2460
tgagaaagct gttgtatggg caaaacatgt agctgagaaa aatggctact tgggccatgt     2520
catccgcaaa ggcctcaatg cctacctgga aggttcatgg catgaagctt tgctgtatta     2580
tgttttagca gcagaaactg gaattgaagt gtcacagaca aatttagcac acatctgtga     2640
ggagaggcca gacctggcca ggagatactt gggtgttaac tgtgtttgga gatactataa     2700
tttctctgtt tttcaaatcg atgctccttc cttttgcatat ttgaagatgg gagacctttaa    2760
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agccgccctg gatggagact cccagggatt ttttaacctg gccctgctaa tcgaggaagg     2880
tacgataatc ccacaccata tcttggattt cttggaaatt gactcaactc tccattctaa     2940
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cctgcactca gccctgatct actttctggg aacctttctg ctatccatat tgatcgcctg     3120
gactgtgcag tatttccagt ctgtctcagc aagcgatccc cctccaagac catcccaggc     3180
ctccccagac actgccacgt ccactgcaag tccagctgtg actccagctg cagatgcctc     3240
tgaccaagac cagcccacag taactaataa cccggagcca cgtgggtgaa ctgtgcactc     3300
cagttctctc cagatgagag agaatctttt caacagctgg tattgggaag ctggggccag     3360
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tgtcattttt tttaaagtca aattacaagg aagtacccag atcaggcagt ggtaatacca     3480
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cctagcagtt ataaggcacc ttgaaataaa ttgtttgtgc ctggaaatgc agggagggca     3840
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cgaatcattt aatggcattg tcggatatct tttacatttc aattgcaatc catgaaatta     3960
catttagaag attcttagta cttaactgta gtcttctcca tgaattacac gttagaatag     4020
actggcagca actgaatatg cagcaagtaa gcctctagct tctagcttat agtttcatcc     4080
ctacccctca tgcctgcgtg agtctgtaca gggatatgtg tgtgtgtgtg tgtgtgtgtg     4140
tgttagagag gaagaggaag agcagaatgt ctgtatacta catgctgcta aggtagtgaa     4200
taaatcagta atgcaatatt gtgggtccaa actactcttt gcactacttt atttacagta     4260
gtaaataaaa ttatttttat acaattg                                        4287
```

<210> 5625
<211> 4593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (89)...(4021)

<400> 5625

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gccgccgcgg acgcagaatg tggctcagct gcccctggtc ccatcccagg gcagagctcc    180
tcctgagtac ccttgagact ggagcagatt cagcagaagg cagattgccc cctctccctg    240
gagctggctc tgaagcccag gatggcggcc caggtgactc tggaggacgc gctgtccaac    300
gtggacctcc tggaggagct gccccctgccc gaccagcagc cctgcatcga gcccccgcca    360
tcctcgctgc tctaccagcc aaatttcaac actaactttg aagacagaaa tgcatttgtt    420
actggcatcg caagatacat tgaacaagcc accgtccact ctagcatgaa cgagatgctg    480
gaggagggcc aagaatatgc tgtcatgctg tacacctgga ggagctgctc ccgggccatc    540
ccacaggtga aatgtaacga gcagcctaac agagtggaaa tctacgagaa aaccgtggag    600
gttctggagc ctgaggtcac aaaactgatg aatttcatgt acttccagag aaatgccatt    660
gagcgtttct gcggggaagt gaggcgcctg tgccatgccg agaggaggaa ggacttcgtg    720
tcagaagcct acctgatcac actgggcaaa ttcatcaaca tgttcgctgt gctggacgag    780
ctgaagaaca tgaagtgcag tgtgaagaac gaccactcag cgtacaagag ggccgctcag    840
tttttacgta aaatggcaga tccacagtcc atccaggaat cgcagaatct gtccatgttc    900
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gcgctgcagg gcctgcagct gttgtcgcag tggagcgcgc acgtgatgga agtgtattcc   1500
tggaagcttg tgcaccccac cgacaagtac tccaacaagg actgccccga cagcgctgaa   1560
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atcaggaaga ccgtgtgtga ctgggagacg gggcatgagc ccttcaatga cccagccttg   1860
cggggcgaga aggacccccaa gagcggctaa gacataaaag taccacgccg cgccgtggga   1920
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tataaggtta tggcaggaag tttgcttctt gataaacggt tacgatcaga atgcaagaat   2460
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tccatagttg agctggatgg cctgttggaa atcaaccgca tgacccacaa gctgctgagc   2700
cggtacctga cgctggacgg cttcgacgcc atgttccggg aggccaacca caacgtgtca   2760
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ttccagaacc tgcgggaggt ggggaacgcc atcctcttct gcctgctcat cgagcagagc   3300
ctgtctttag aagaagtgtg tgacctgctg cacgcggctc ctttccagaa catcttgccg   3360
cgagtccatg tgaaagaggg ggagagactt gatgccaaaa tgaaaagact agaatcaaag   3420
tacgccccgc tgcatcttgt cccactgatt gaaagactgg ggacccctca gcaaattgcc   3480
atcgcaagag aggggggacct gctgacaaag gagcgcctct gctgcggcct gtccatgttt   3540
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cccagcaatg gggtcatgca tgtggacgag tgtgtggagt ttcacagact gtggagtgcc   3660
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tgagggcacg cgctgcactc cgtaactcaa catggcatgc ctttctctcc gtaaactatt   4080
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cgatctaaaa acttaatttt ataaaattga cttattttc tagactaaaa ttgtatatgc   4200
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aaaattgttt ttctatggga tgttctggca gctgtgtcat aaaatgctgc tgggttcatt   4320
cattcattcc ataagaaact taataccagc aaatgcatta aatcccttgc cagttaccat   4380
taactataac tatttagctt ttgtttaggg atctttctga tggtctttta tgagcaatct   4440
tagttctaag tcattgttcc catccctttt ttgtgtgttt cagaaaatag tgaacttgat   4500
tcccctgctt ccactaaatc cagttgtgac aaaatctaac gtgacatcag atcgaaaggt   4560
tatagaaata aaactaatga gatctaaaaa aaa                                4593
```

<210> 5626
<211> 1635
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (465)...(229)
<223> similar to gi1296427 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5626
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aatattttgg atagactggg ttaaaaaaaa attaagttca cctgcttctt tttactttt    120
gaaatgtgac tgtcagaaaa tttaaagtaa catatgtggc tcacactatt tctgtgggac    180
agccctgcct ctagctaggg gctttggtga gaaccagatg agttgatggg tctcctctgg    240
gccctgcttc cctggctgct gaggtgcagg aactgtgagg ggagggcagc ctgtcacggt    300
gcccaacaca gggcagggct ggacaggtac aagtggaaca ggcggataag ctgggaaggg    360
cacagagaaa aggagctcct cgtgacagca ctttcccacc ttttattatt caacacatgg    420
aaggggtgg agacacaagg ataggcaat ggtgagtttc aataaataag agaaacagga    480
tggacaggca gtgggcccat gcctgcacgg ccccacataa ataaccaggt tgctgagcca    540
gagtggaagt cagggctggg cctggcagcc gcctgcactg cccagaagca ctggcaccac    600
```

4155

```
agggacacag aaaccactga ggcccaaggt gtgctccagc cccaccaagt cttctcccta      660
aagctcctga gatcttgggg ctggctgggc aggctagggc tctgtatcac agtcctgccg      720
ggatcaagtc tattttttca gtttcattaa aaacagctgg gggaggggca ggcacatgca      780
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aggccctgga agcagcaaaa acgggctgg ataaagctac taatgggagg gatggtagag      900
cccagctccc cagtcccca caacccagcc cagaacctac aaagagctga agaggccctg      960
ggtactgaga cgtctctcct tacttcacag tcagaaaaat ggacccagcg atggccacag     1020
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ttccctttat agacctgctg gaagaggagg gggacgcaca tctgctctag ggccctgtac     1140
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gccagggcag gcacgggggt cggggcatcc ttcaggggag caacatggca gcagggccag     1320
gggtgggggct cagcctgctc ctgtacacag tgcccgccgg ccacctgcct cctcactggg     1380
gcggacgctc ccacctccag gccttggtct ttgctgtctc gtctgctggg ccattgcttc     1440
tcggtcctca cagtcccagc tgcagctcca cctcctccag gaagccttcg gaacctccca     1500
gggcagggcc gcagtgtcct tagactagac cgcccctcag atgaccaggt tgctctcact     1560
tagccggacc acatagcggt tctcctcggc cttgttctct gctgggggct tcagccactt     1620
tgtacggctt ccgcc                                                      1635
```

<210> 5627
<211> 4368
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4369)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3700)...(1904)
<223> similar to gi3882187 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5627
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ataaaacaag taaaaactga tttatcaatc ttcacataga actgcagatg aagctgaaaa      180
acaaggccta ttttaaaaat aaattggatc aaacgtaagg gctttgggtc tatggtttaa      240
ttacctagga ttgtcatatt tcttcccata tacaaaatgc aaagcctgaa agttagggct      300
ctgacattca tagagatcaa ctgtaataat cccatttaaa acacagccac ttgcaaacat      360
ttacagtggg tggtagtcta tattatcttc catcctttgc tctatttcag cacttccctt      420
agccccattc taagcactca tataatttca taattctgtc tttttaaatg catactgttc      480
tttttcttga tttcagttat atacattcct gatcatctga atattttcct tacaaaaata      540
tatcatcaaa ataaagagat gcttgaggtt gcttcagtgt tcaagtttgc ttgttttttt      600
ttccagcttt tcttcagttg tcctaaatat ggctagcctt gttttataaa tacacatgat      660
actgtcacca agtcaggatt agaaatggac tgccccaaca gtaaagcatt taaacttctc      720
tccaaaaaaa gggctgtagg tactgctgct gttgctggtt ttgagactgt actttcccaa      780
taacaactgc ttgtgcaagt tctgtgggac accaagcaga tgaagcttaa ccttgttgtt      840
```

4156

```
ctgtcagtgg gttaaaaata tcttttgttt taagcttccc tgtggaagac aaacactgtg    900
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tctttcagca gattactttt catgtgatga atttcaactg ctcatgacat tatactgagg   1740
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cactgagctc cctcatcatc ttctgtgtct tgagtctttg gtgttttgat gatggacctt   2040
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atagcgctgg ggttaaaatg tggtcctcgg gcttgaaaaa gatcaatttc tttggttaag   2160
cagtcaatgt caatctggag ttgtctatta caacttctca gctgctgcat ttcttcaagg   2220
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gttattatta ttctgtaaca tgcacctgga tacaacaact tcaggtactt cagggaattt   4140
ttgtcgcagg tcatgtaaaa cctgaaaatc aatttggtgg cttccttggg ccattcgtat   4200
attgcctgat caggactatt tgtacacgta cggcaattat aggccttagt ggaaatagta   4260
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4157

```
ctcatctctt ctgtccaagc attttctgta aaagaaagaa aaacggacgc gtggntcnnc    4320
ccgggnnttg gcnagaccac gttgcnctaa gttcaaggcc ctggctcc                 4368




        <210> 5628
        <211> 2410
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (373)...(2244)
        <223> similar to gi3560144 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 5628
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        accccacaca aggaggatct aagcagcaag attaaagaac aaaaaattgt ggtggatgaa    180
        ctttctaacc ttaagaagaa taggaaagta tataggcaac aacagaacag caatatattc    240
        tttcttgcag accgaacaga aatgctgtct gagagcaaga atatattgga tgaactgaaa    300
        aaagaatacc aagaaataga aaacttagac aagaccaaaa tcaagaaata gtcaacctga    360
        tttcacataa caatgtgtgg catttgttgt tctgtaaact tttctgctga gcatttcagt    420
        caagatttaa aagaggactt actatataat cttaaacagc ggggacccaa tagtagtaaa    480
        caattgttaa agtctgatgt taactaccag tgtttatttt ctgctcacgt cctacacttg    540
        aggggtgttt tgactaccca gcctgtggaa gatgaaagag gcaatgtgtt tctatggaat    600
        ggagaaattt ttagtggaat aaaggttgaa gctgaagaga atgacactca aattttgttt    660
        aattatcttt cctcctgtaa gaatgaatct gagattttgt cactcttctc agaagtacaa    720
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        tttttttggtc gccgtagctt gctttggcat tttagtaatt tgggcaagag tttctgcctc    840
        tcttcagttg gcacccaaac atctggattg gcaaatcagt ggcaagaagt tccagcatct    900
        ggacttttca gaattgatct taagtctact gtcatttcca gatgcattat tttacaactg    960
        tatccttgga aatatatttc tagggagaat attattgaag aaaatgttaa tagcctgagt   1020
        caaatttcag cagacttacc agcatttgta tcagcggtag caaatgaagc caaactgtat   1080
        cttgaaaaac ctgttgttcc tttaaatatg atgttgccac aagctgcatt ggagactcat   1140
        tgcagtaata tttccaatgt gccacctaca agagagatac ttcaagtctt tcttactgat   1200
        gtacacatga aaggaagtaa ttcagcagtt cattgatgtc ctgagtgtag cagtcaagaa   1260
        acgtgtcttg tgtttaccta gggatgaaaa cctgacagca aatgaagttt tgaaaacgtg   1320
        tgataggaaa gcaaatgttg caatcctgtt ttctgggggc attgattcca tggttattgc   1380
        aacccttgct gaccgtcata ttcctttaga tgaaccaatt gatcttctta atgtagcttt   1440
        catagctgaa gaaaagacca tgccaactac ctttaacaga gaagggaata aacagaaaaa   1500
        taaatgtgaa ataccttcag aagaattctc taaagatgtt gctgctgctg ctgctgacag   1560
        tcctaataaa catgtcagtg taccagatcg aatcacagga agggcgggac taaaggaact   1620
        acaagctgtt agcccttccc gaatttggaa ttttgttgaa attaatgttt ctatggaaga   1680
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        ggatgatagc attggctgtg cagtctggtt tgcttctaga ggaattggtt ggttagtggc   1800
        ccaggaagga gtgaaatcct atcagagcaa tgcaaaggta gttctcactg gaattggtgc   1860
        agatgagcaa cttgcaggtt attctcgtca tcgtgtccgc tttcagtcgc atgggctgga   1920
        aggattgaat aaggaaataa tgatggaact gggtcgaatt tcttctagaa atcttggtcg   1980
        tgatgacaga gttattggtg atcatggaaa agaagcaaga tttccttttcc tggatgaaaa   2040
        tgttgtctcc tttctaaatt ctctgccgat ttgggaaaaa gcaaacttga ctttaccccg   2100
```

                                        4158

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aggaattggt gaaaaattac ttttacgcct tgcagctgtg gaacttggtc ttacagcctc    2160
tgctcttctg cccaaacggg ccatgcagtt tggatcaaga attgcaaaaa tggaaaaaat    2220
taatgaaaag gcatctgata aatgtggacg gctccaaatc atgtccttag aaaatctttc    2280
tattgaaaag gagactaaat tgtaatgtga ttcacaatgt aacaatataa aaataagttt    2340
ttatataatt atataaaagt aagatactct gctgctttac tattgtataa tatagtattt    2400
ttaaagttca                                                           2410
```


<210> 5629
<211> 2102
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1760)...(663)
<223> similar to gi4406590 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5629
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cctacgactc ctggtcaccg tggtcccggg cccttctctg aaaaggggca tccccagccc     120
ggagcgtgat ggaccaatgc gagggcctga gcccgagggt gcggacagta aaccgtttat     180
tactgtgtgg acacagacac cgtggtgcat gacagacagt ttcaacacca tgagcgctgg     240
ggacggagct gtgcctggac agctctgcgg tgtgtggtgg cgccacgctg ggccggctgt     300
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agcaggtgac ttaggggcgt ctctagaaac ccaaagaaat gtaccttaaa taagcaaata     420
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caggagttgc acttggtttc ctcactgtca tgtgtgatca caggtcagga cgtttcacag     540
cagcgcgccc aggctcctgt gcgtgctctg gtgcactgga gtctggggct ggctgggctt     600
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cgtggtgctg atcccactca gctcctgcct gatggcgtcg atgatctcct ccttcacctt     720
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aaggggggctc ttagcttcgg ggctctttgc cacagacggg gttctggaca gaatcgagga     900
cacaggcttc tccaccgagt tgctccgctc ccagggcttc cggccagcct ctgaggagtt     960
aggtggctgg ctggctgctc gggtccccgg agagggggag gtactaggat cttccatttg    1020
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ggccagcagt ttgttcattt cctccatgag gcctcctccg ccacccccgc tgcttgcccg    1140
gttggcatcg gactttgagg tcccactggg actggagcct ccagatgcgt cttctggccg    1200
ttggactctt ctcagcttgg cccccagcta atggcaagcg gccagtcctg aacatggaag    1260
ctctcgtcgt ggctggaccc cctgggcttc ctccggctgg caagtggggg tggggggaggt    1320
ggggtaagcc ccagtgggtg gaggtgggac tgggggtggg ggggcggtg gaggcccact      1380
acatgagacg ggggcgctgg ctgcagatga aggatgtcct ggtgggagga tgggccctgt    1440
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gtggaaggtt ggcgtggcct gattgtactt cagccctttc acgattgaat aattgatcac    1740
aacctgctga tcctgcaact tgactccaac gactctgaag gtgttgctgg cagtgttgtg    1800
gtagatgttg atccggctga atccctgctg gccaggtttg attggtaccc atttcttact    1860
```
```
                              4159
```

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ggtgtcatcg tagaccatca cggaagcccg ggcttggcag atactctgtt cacttgtggc    1920
catggctgaa aagtggcagc acagggaacc ctgaggaggc gagtcctgta ctcccaccag    1980
cctatgttga tcagaggacc acagaccctc tgaagacagc aaaatgatta atatagccta    2040
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ag                                                                   2102
```

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        <210> 5630
        <211> 4790
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (4607)...(903)
        <223> similar to gi5912263 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


        <400> 5630
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taatccaaag gtcatctatg caaaattagg aatatgcatt tttctccaaa gagtatcttt     120
ggctttaatc tgattctcaa aaggatccta tgatccaaga aagtttaaga accattgaaa     180
cagtaattta ttcctgagct atttgactgc catcaatcca tttgttataa aactgaaggg     240
aaaacacaca tttgaatcac ttcttctaaa gctttagtaa gtgatctgtt caaataagca     300
attacatgaa agaataaaac caaatttcca acctaaaatt ctgacaggag agtcaacatg     360
atggttaagg cctatttcat attcaaactt cagtctatga aagagtagag agagaagggt     420
ctcctctttc aaattaaata ttataaaaac aattaaaaaa aggtatcaat agtcctaaaa     480
tgcagcaact ccatctcaaa caagcatgac acacttctga tcagatgaag tatttacaaa     540
ggtagcttgt gttttaagca tgtaacactt tgggtgacga cagaagtttc tcctctttgg     600
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tggctcattt ttttcttctt tacactggct ctgagaactg cagaggggct gctctgcttc    1200
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caagtcatgg caaatgtgaa gcaggagctg tttggcaggt gtgttatttg tagcagatgg    1860
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ggacagtagc tccagaaggc aaaacaccaa tctctgaccc tgtagacttt catgcagctg   2100
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gccatcccca acacctatgg ccaaagagcc tatgtccaca gaagagaaag ccaggctgta   4320
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gctagatacc agctgtgttg gttgattgct gggccaatgg agtgtcaacc aaaggcgctc   4620
tttaacagtt gggtctatac cccctcctct tctcttcaga aagggcaatt tcaaaatcat   4680
cacccctcgg cctctagaac agctccagat tcgaatggtt tgatctttgc ttccagtggc   4740
taagtagcaa caatttgtta ctggagcttg tgctacagca ttcccgttgg             4790
```

<210> 5631
<211> 4079
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (248)...(3126)
<223> similar to gi6002669 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

<400> 5631
accggatgga gttccgggtc gacccacgcg tccgggctgc agcagcgcat tctggggcat   60
ggttcggcgg gggcgcggag ggctcggttc ggaggggggcc gggagcccgg gcgccctgga   120
gtgaggagga ccgggagctg gctctggagg ctgcggaggc gacgccggag agaacgaagc   180
ctcggctggg agcggatctt tcgaagatgg tttggctgcc ttggagattt ggagatctga   240
tgccacgatg aggactcaca cacgggggggc tcccagtgtg tttttcatat atttgctttg   300
ctttgtgtca gcctacatca ccgacgagaa cccagaagtt atgattccct tcaccaatgc   360
caactacgac agccatccca tgctgtactt ctccagggca gaagtggcgg agctgcagct   420
cagggctgcc agctcgcacg agcacattgc agcccgcctc acggaggctg tgcacacgat   480
gctgtccagc cccttggaat acctccctcc ctgggatccc aaggactaca gtgcccgctg   540
gaatgaaatt tttggaaaca acttgggtgc cttggcaatg ttctgtgtgc tgtatcctga   600
gaacattgaa gcccgagaca tggccaaaga ctacatggag aggatggcag cgcagcctag   660
ttggttggtg aaagatgctc cttgggatga ggtcccgctt gctcactccc tggttggttt   720
tgccactgct tatgacttct tgtacaacca cctgagcaag acacaacagg agaagtttct   780
tgaagtgatt gccaatgcct cagggtatat gtttgtaacc ttaatactag cgcgcggatgg   840
cgattcaaat acctgcacaa tcatcagccc accaactgta tggctttgct cacgggaagc   900
ctagtcctga tgaatcaagg atatcttcaa gaagcctact tatggaccaa acaagttctg   960
accatcatgg agaaatctct ggtcttgctc ggggaggtga cggatggctc cctctatgaa   1020
ggagttgcgt atggcagcta caccactaga tcactcttcc aatacatgtt tctcgtccag   1080
aggcacttca acatcaacca ctttggccat ccgtggctta acaacacttt tgcatttatg   1140
tatagaacca tcctgccagg gtttcaaagg actgtggcta ttgcggactc aaattacaac   1200
tggtttttatg gtccagaaag ccaattagtg ttccttgata aatttgtcat gcgtaatggc   1260
agtggtaact ggctagctga ccaaatcaga aggaaccgtg tggtggaagg tccaggaaca   1320
ccatccaaag ggcagcgctg gtgcactctg cacacagaat ttctctggta tgatggcagc   1380
ttgaaatcgg ttcctcctcc agactttggc acccctacac tgcattattt tgaagactgg   1440
ggtgtcgtga cttatggaag tgcactacct gcagaaatca atagatcttt cctttccttc   1500
aagtctggaa aactgggggg acgtgcaata tatgacattg tccacagaaa caaatacaaa   1560
gattggatca aaggatggag aaattttaat gcagggcatg aacatcctga tcaaaactca   1620
tttactttttg ctcccaatgg tgtgcctttc attactgagg ctctgtacgg gccaaagtac   1680
accttcttca acaatgtttt gatgttttcc ccagctgtgt caaagagctg cttttctccc   1740
tgggtgggtc aggtcacaga agactgctca tcaaaatggt ctaaatacaa gcatgacctg   1800
gcagctagtt gtcaggggag ggtggttgca gcagaggaga aaaatggggt ggttttcatc   1860
cgaggagaag gtgtgggagc ttataacccc cagctcaacc tgaagaatgt tcagaggaat   1920
ctcatcctcc tacatccaca gctgcttctc cttgtagacc aaatacacct gggagaggag   1980
agtcccttgg agacagcagc gagcttcttc cataatgtgg atgttccttt tgaggagact   2040
gtggtagatg gtgtccatgg ggctttcatc aggcagagag atggtctcta taaaatgtac   2100
tggatggacg atactggcta cagcgagaaa gcaacctttg cctcagtgac atatcctcgg   2160
ggctatccct acaacgggac aaactatgtg aatgtcacca tgcacctccg aagtcccatc   2220
accagggcag cttacctctt catagggcca tctatagatg ttcagagctt cactgtccac   2280
ggagactctc agcaactgga tgtgttcata gccaccagca aacatgccta cgccacatac   2340
ctgtggacag gtgaggccac aggacagtct gcctttgcac aggtcattgc tgatcgtcac   2400
aaaattctgt ttgaccggaa ttcagccatc aagagcagca ttgtccctga ggtgaaggac   2460
tatgctgcta ttgtggaaca gaacttgcag cattttaaac cagtgtttca gctgctggag   2520
aagcagatac tgtcccgagt ccggaacaca gctagcttta ggaagactgc tgaacgcctg   2580
ctgagatttt cagataagag acagactgag gaggccattg acaggatttt tgccatatca   2640
cagcaacagc agcagcaaag caagtcaaag aaaaaccgaa gggcaggcaa acgctataaa   2700
tttgtggatg ctgtccctga tatttttgca cagattgaag tcaatgagaa aaagattaga   2760

                              4162

```
cagaaagctc agattttggc acagaaagaa ctacccatag atgaagatga agaaatgaaa    2820
gacctttag attttgcaga tgtaacatac gagaaacata aaaatggggg cttgattaaa    2880
ggccggtttg gacaggcacg gatggtgaca actacacaca gcagggcccc atcactgtct    2940
gcttcctata ccaggttgtt cctgattctg aacattgcta ttttctttgt catgttggca    3000
atgcaactga cttatttcca gagggcccag agcctacatg gccaaagatg tctttatgca    3060
gttcttctca tagatagctg tattttatta tggttgtact cttcttgttc ccaatcacag    3120
tgttagcact gaagctataa attacctggt cattttgtga tcacaagagt ctatgcaaaa    3180
aaaaaaattt ctttacccca gattatcaga ttttttttccc tcagattcat tttaacaaat    3240
taagggaaga tattttgaca caagaaagca ggaacgtgga gaaattggag caggaaaaga    3300
aattatcaaa gcaatagaaa tagcttggtg gtcctatggt gttttttggaa gtatttggca    3360
ttgctaattg agcagtccat atagtactac ttttagaaga aacaaaaagt ctgtttttta    3420
aagtaatgtt ttttcttatg agaaaaaggt ttagatagaa ttgggtttta ttaatattaa    3480
tttaatgcta ttagcaattt ccatatacta tattgtggaa aagactgaag aatacaattc    3540
tgagaaatac aaaaaaattt taatggtata ctcatgttga aagataaatg ttgctaagtc    3600
ctggtatgat ggtgtgagct tccttgggga agtacttctt gagttatgta actaacagga    3660
tgttttacta cagatctgga tggctattca gataacatgg caaaaaatga tagcagaaga    3720
tcattaaaaa cttaaaatat attttattag aaaacattta tctatgaatg aatatttcct    3780
tgatgctggt ctctgcacac atatgcttgg ttacttgcat gcattcattg gttgttcaat    3840
aagtgagatg attacagata acttaatact gtattttcct tatatggaaa accgttatag    3900
acccaataac aactaaacct ttcaaaagaa aatattttct attatgaatg ttgattttca    3960
taccaaagaa gatggagagt ctaaaatttg gatatgattc ttatgttttt ttaatagaaa    4020
accttcttca agtttatttt cctaaataaa catcataatt gtgaattttta aaaaaaaaa    4079
```


        <210> 5632
        <211> 2276
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (116)...(15)
        <223> similar to gi5080758 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5632
```
taattgggag aatactccag ccataagatc tgcatgcata gcatagcact ggcttctctg     60
gactttgcac acctccagga gaagaaccca gaaaattgat cagttctaaa aaaccatgcc    120
ccacttgttg gtgactttca gggatgtggc cattgacttc tctcaggagg aatgggaatg    180
cctggaccct gctcagaggg acttgtacag ggatgtgatg ttggagaact acagcaacct    240
gatctcattg gacttggaat ccagttgtgt gaccaaaaag ttatctccag aaaaggaaat    300
ttatgaaatg gaatcactcc agtgggagaa tatggggaaa cgtatcaacc atcacctttc    360
aatacaatgg tcttggagac aatatggagt gcaaaggcaa cttagagggt caagtaagca    420
agtcagaagg gctttacatg tgtgtcaaaa ttacctgtga agaaaaggcc actgaaagtc    480
attcaacctc ttctactttt catcggataa ttcctaccaa ggaaaaattg tcaaatgtaa    540
ggaatgcaga caaggtttca gctacctgtc atgccttatt caacatgagg aaaatcataa    600
tatataaaaa tgctctgaag ttaataaaca caggaatacc tttagcaaaa agccaagcta    660
tatttaacat cagagaattc agactgggtg agaaacctta tgagtgtatg gaatgtggaa    720
aggcctttgg tcgtacttct gatctcattc aacatcagaa aattcatact aatgaaaaac    780
cttatcagtg taacgcatgt gggaaagctt ttattcgtgg ttcacagctc actgaacatc    840
agagagttca tacaggagag aaaccatatg attgtaagaa atgtggaaaa gcctttagtt    900
```


                                    4163
```

```
attgttcaca atatactctt catcagagaa ttcatagtgg tgaaaaaccc tatgaatgta    960
aggattgtgg gaaggccttt attcttggct ctcaacttac ttaccatcag agaattcata   1020
gtggtgagaa accttatgag tgtaaggaat gtggaaaggc ctttattctt ggttcacacc   1080
ttacatacca tcagagagtt catactggtg aaaagcctta catatgtaaa gaatgtggga   1140
aagccttttt atgtgcctcc caactgaatg aacatcagag aattcataca ggagagaaac   1200
cctatgaatg taaagaatgc gggaagacct tttttcgtgg ctcacaactt acttaccacc   1260
tgagagttca ttcaggtgag agaccttata aatgcaaaga atgtgggaaa gcctttattt   1320
ctaattctaa tcttattcaa catcaaagaa ttcataccgg agagaagccc tacaaatgta   1380
aggaatgtgg aaaggccttt atttgtggca acaacttag tgaacatcag agaattcata   1440
caggtgagaa acccttgaa tgtaaggaat gtggaaaggc ctttattcgt gttgcatatc   1500
ttactcaaca tgagaaaatt catggtgaga aacattatga atgtaaggaa tgtgggaaga   1560
cctttgtacg tgctacacaa cttacatatc atcaaagaat tcatacaggt gaaaagccct   1620
acaaatgtaa ggaatgtgac aaggccttta tttatggctc acaatactta gtgaacatca   1680
gagaattcac agaggtgaaa aaccttatga atgtaaacag tgtggaaggc ttttattcgt   1740
ggctcacacc ttacgaacat ctgagaactc atactggaga gaaaccctat gaatgtaagg   1800
aatgtgggag ggcctttagt cgtggctcag aacatactct gcatcaaagg atccatactg   1860
gtgagaaacc ctatacatgt gtccagtgtg gtaaagactt tagatgtcct tcacaactta   1920
ctcaacatac aaggcttcat aattgagaaa gccttgaatg tgattaaatt taagaaaatc   1980
ttcatctatt tcatatctat aatgaatgta gaacatcttg cttctgctca gaactgctca   2040
ttcttagaag gcctacttaa catggatgca gaataatttc agaaacccct taaataattc   2100
cttaacatct ctataaacgc tagaatataa tgctgaatta tatcctttat taagcatcat   2160
ctccatttca ccatatccta actgaaaccc tatatatttc ttgtgtgttc ttttctattt   2220
gtaaatactg taattgtatt acatgactaa attatattaa tactataatt ccccgg       2276
```

```
        <400> 5633
taatctatga aatttcggtt ttaaaaaatg tgttaagtct ttgtttttgg cctatcaggt    60
ggtttataaa gaagaatgtt gaatgagcta ttgagaaggc tgtgtatccc gatgttgttg   120
aggagtgttc tctatacctt cattagaaat tattgttttt gactgccttt tagtcctctg   180
ttcccttact aatatcatct tgttttatta ttattacaga aagtggggta ttgaaatatc   240
ctactataat tatattgctc tattcaactt tgttagtatt tgctttatat atttgaaacc   300
ccaatttgag acacacacac gcacaaatac acacatggat aaacaaattt gtcataggtt   360
tccatgaatt aatctatata ttgtttaatg tccttctttt ttgaagtttt aacttaaagt   420
acatttata aaatatgaca gcttttgact ttaacaatgt agcttgtgta atattatttt   480
gacctcttct gctctcattt tgttagtatt tacatgaaat ttctacttgg tcttgccact   540
ttcagtcttt tcttatcatt agatctcagc tgactcttgt aaaaaggcaa gttgagtctt   600
gatttttaaa attttttaat gagccttttt agaagtatgt ctcttgattg gaaagataat   660
tatatttaaa tagttttctg aaagagaaaa acttactgtt aataaaataa ttgtttcgct   720
tcttgtatct ccgtgtctta atttctcctt tataagtttt ttttataaat gtgttgacat   780
gctttgagct ttttt                                                     795
```

<210> 5634
<211> 4570
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4571)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (4545)...(329)
<223> similar to gi36110 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

    <400> 5634
tttttttttt ttgctacaat ttgtgcttta atagtcattt gttcctttat tggttcaagg   60
gtcagtgttg gtgtggtcac tgctgagtcc actgtgccca gaagacaggg tccacagcag   120
gcactccata aatacatgtt gcaggactgc cctcactggc tcactctgtg gagtgaggga   180
cctaatgggc cccatttacc tattgcctct gaaagttaaa gggcaggaac aaggtggagg   240
gccactgccc tctggcctgg catggcccag aggcagcttg gggttagctc aaggcagcta   300
agcaggtcca gcccaagaac taagtcaagt gggccgagga ggctctgaga gtggccgggg   360
cccngcgtac aattccctgg catggggtga gaacgggggc tgttctggac gcacattcca   420
tctcatgcga gctgctgggg cccaagttcc atgtagggtt gctggcagct gcacataatg   480
ggtccccaag gaagtgagga cactatctgc tccacctccc cccactagta cttctgaagg   540
tgggtcgcac ttgctgggtc tgcctcccag cattgctgca tcacttggta cagagaatca   600
aggcaatact caggctgggg caggcgccga ccctggggcc cagaaagtgg gtaaggtcaa   660
aagggtcaat gtggcggtat ggtgggggcac cccgtgtcag cagttcccac agcagcacac   720
caaatgacca cacatcagac ttggtggtaa atctataggt ctgcaggctc tccagcgcca   780
tccacttcac aggtaggcga gcgtggcgat gctgttgaac actatagtac tccctgtcca   840
ggatgtcgcg ggccaaacca aagtcagcca ccttgactgt gaatgactcg tccagcatgc   900
agttccgcgc agccaggtcc ctgtgcacaa acttctgctc tgccaggtac tccatgccgc   960
gggctacctg caggccaaag ctgatgaggt ccttcacggt ggggttccgc tgaggtgagc   1020
ggatgaactg gagcaggtca ccgtggcaca tatagggcag cagcacatgg ggcaggccct   1080
caggtggcaa catgatacca atgagagcca gcacattcgg gtggttcagg ccacgcatga   1140
gcagcccctc tcgcaggaag gcctccacct gctgcatctc tgtgatgcga cttagtgact   1200
tgatggcaca ttggattcga ttctgggcct ggtctatgta ttctccgtgg tagacaactc   1260
caaagtggcc tcagccaatg actcggtcac tgtgggtgac cacccgctca tggggaatca   1320
gcaacatcct tgacctcaag ccaagagcgc agagtccagg tcccttagct ggatggactc   1380
tttccgcagc agtggcacac aggattcatc ttcactatcg gagaaggatg ctccatggac   1440
acaagtggtg gaatccagac catcaatggc agggagtgca aggccacttc tgtagtcaga   1500
gcccgagtac agaataggca ggggtgtggc tccagcagtc tggtccaggg atgccaggtc   1560
attcaggttg ggaggaagaa ctagctgctt cctccgccac cagtagctga agaccagtgc   1620
agtcgccagt gcagccacaa gcagcagcaa aggcagcagg ataccaagga gcgtgctctg   1680
tgggacccca tctggccctg ccgcaccac tctacccagg atatgacatt caccatctac   1740
gcagacctgc aatggggcac catcctggcc aagctgcagg gatgggggca ggggcagac   1800
aaccatgtcc ccccggaact cgtgctggca gctctcacca cccacggtca cgttgatacc   1860
cacacagtca gccacagcgc ccagcccaat atactcaaac ttaatggcat gctcctcagg   1920

```
cttcagtgga actaggttgg cactgggtgg atggggtggg ggtaggaagc gaaagccagg   1980
cagtgtaaag ccagcagctc catcccctcg ggcactcaga ttccctgcca cccatccctg   2040
ggggtctcgg accacatatt caggaaggcg gcacagctgc tgctctggaa gctgcctctc   2100
acacctgctt tccactgccc taagcccgtc atggaatgac agcactaagt gccatgctga   2160
agttagatgc tggccacaga tggtgatgtg ggagttgatg tagccacagt tggggctgat   2220
gcttagcacg acagggtctt ctctgtactg gaaggtccag gaaccaggta cctgggcacc   2280
ccccacctgc aggctaaggg ggacactggc caccgtggcc ccagggggtg tggcacataa   2340
aagctgcccc tcactgaccc gtgctagcag acactcagtc ccattgacca gcacagcccg   2400
gctggtgcct acagacagac tctggccttc aagagtgaga caggtgcctc ctgcccgtgg   2460
gccaaagagg ggttgcactg ctatcagcac tggctccatg aaagagaagc ctctcagcac   2520
ggaggtgccg tctacccgga agtgcttgcc cggtggcatg ttagtcacgg tgaggctgac   2580
gttggtaggc cccactgcct gggtgcccaa gggctccagt tcacactcaa actcctctac   2640
aaagtctttc cggggcactg gtctgagttt tgagctgtcc ttgggcagtg gccggcaggg   2700
actttggccc acagtgacct gatgggttcc ctcaggcacc agaccagaag ggtgaaggta   2760
gaagttggag ccacacaggg tcagccttgt actgcccctt agaggtccac tgtgggggtg   2820
gaactcagta agcttaggtg ggcagtggtc ctgttgccag gagccaggac actccttctg   2880
ctggccgcac atgttcccac accagccaca gcccatgaaa tgccatgccc ttaggcaacg   2940
cccacaggtc aggaagtggc ggcagccagg gcctcggata ggtacctgga aaacctggtc   3000
cccagaggca aagagtaggt ggtccccaag acgactgaca tcccgctgca cgggctgccc   3060
actgtcaccc agtgagaagt tggacacata cagcaagtag tttagtgacc tgaccagctc   3120
cacctgcagg atacgcccat ccattgtgcc catgtgtgcc actgtgacgt tgtcaaggcg   3180
tgtcacatac aatgcagtga cctgtactgg tcccaacagc ccattgaata ggtccacacg   3240
tgagaagctg ctactgacca gcagagggaa gtggcggcag ctggtgttgg ggctgagggc   3300
ttccaggcca ggcgggttgg ggcaaaaact gggcgactgg aagaagtcga ggcctcgccg   3360
gaggcctgga tggactgggg attcacaaca gcgctccaca ccctcatcaa ttagtgtgtc   3420
cagcaggtca atggggaagg cacagacgac agagttgggg cccacgccag gaccaccatc   3480
cttgccagtc acaaagaccc caaatagtac ttcctggccc tcggcgatgc tcagctcagt   3540
ggcaagttgg gcacccactg gagcggagtg ggccacctgc agcacagggt agggctgtcc   3600
gccttctggg gcccccccggc gcctgcgttt tggagcaaat ctgcagtcga ggaccagctc   3660
ccgatagtca cccaactctg gctcagtggc gctaagccgt gccaggcgtg tgtgcagggc   3720
actaggatca tctgtcacgc tggccggctg tacagtcagg aagtatacga aggctcccgt   3780
gtggaagctg tgcacgtatt caatactgta ggagacaaga tgcttgggca gcactgacaa   3840
cgccacaaag cccggtgcga atcccgaggc gtcagccttg agacgcctga tagacactga   3900
gcgtgggctg aagctgccag ccacggctgc gtccagtgag gatgccacgt agaaatagga   3960
ggcctggcct tgctcaacca cagttacacg ggtgcccaat gggctggcca cacagtcggg   4020
gcagtcatcg ggccggttat ggtgggctga gaagaggcag gctggcgctg ccagatgcac   4080
ggctgtccct tggggctcta ggtcatgcag gaagcagcgg ccctgcaggc tggagccaca   4140
actgaccagc gcaggcagcg cgggatccag caccagcacc tttgtgtctg tgtcaccggg   4200
agggccgtgg ggtcctgggc cacaggctgc acacgtctgg cagccaggt ctccagcagg   4260
gcccgtggcc aggctctgga cagacttcag gtcaggccca agcacatgca ggcgattgcg   4320
tatggctaca aacacagcac tctcatttct gtcgccctcg taggtcacca tggcctgtac   4380
caggcctccg gcggagaagc tgggcaccac gtacttcacg tcaaagtcgc gagaggccgc   4440
gtagggggtg cgcgggcact gccagtcctc gcccgccgcg ggcttggcag gcaacagcag   4500
cagcaacagg aaggactgag gcagcggcgg gaggagctcc atcgaggcga gctgggaccc   4560
tagaggatcc                                                          4570
```

<210> 5635
<211> 1949
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

4166

<400> 5635
```
tttttttttt ttaaaaactt ttaacaattt attagtctta ttttccagta aaatattcac    60
agagatgtca aaagaatgag atggtgagcg atatagccaa ctacctttaa ttaattccac   120
ataaatagtt aagatctaaa aacctcagat gagcagaccg agtcgaaatg tgattcttca   180
aagcaagtat tgctttaccc tgtgtcctgg aatgcagtcc gtcgatatga ccactaactt   240
gcatgtgacc aaatgttttg agagtgtttt ttaggatatg gctctcgggt gaggccggtc   300
atcccgtcaa tccaaggaag gaaggatgtt gttggaactg cggttggcac caaggtttct   360
tggacctctt tcattttact tccaatcagg gtttggcatt ttttttggat ttcaaaatta   420
acataggggc tcccggccgg atcagacttc ctttccaaca accccagtaa tcactcaagg   480
cccttcaaca atgatctccc tcatcttcca cccactctgg ggtaaaggtc actgttggat   540
ggtcaccgag gaatcttcat ttaaatccgg gtgcacggaa gtgagcggac acgctggggc   600
gttttcctca tgtgaactgt gctcttctcg gcgagattca tgtggttgaa gtagataaac   660
ttaaactggg gttcctttcc tcagaccccg gaacatcccc cttgttgatg ttaaaactgt   720
tccacaagat gtccagaggc ccagccactg tgaagctggg gccccaacga tgctgtccca   780
gtccttcggc aaaaaaccca acgttgggtg gacagaggcg tcgatcataa agcacacagc   840
cgcactcatg gccttataaa cggattaaat ggagctcttc ataagtgtca tctgtattta   900
caaaaatttt ggggaatctg cattttgcat ctggatcatt gaggttcaag ggtccggtaa   960
gaaatcttcc atagtgttga agatttcctg gcatttctgc tcttattgga gaatcccttc  1020
ctgctaactc aggttcggat gtgccttggg aaaagggagg tggtaaggta tttgtataaa  1080
attctcatgt catcttgttc taatccactc cagatgagct gatcgttata gagaaaagca  1140
gtgtatttga ctatattcag gctttcctcc attcgtatta ataaaggact ggattttcaa  1200
ataagtcatt ttatccaacg ggaagaagct gattccacca aaaatgtcaa gtaggtcaca  1260
tgactgcaaa tgtagcgttt gcaaataccg atggaagaat ttctctaatc tttctttcag  1320
aagcttgacg cctccgtctt ccatggcttt caggaaatgt accattaaaa agcttgtaca  1380
tgctgtagca ctgccgcagc accgagctat aaaccttgtc caacaactcc tcctcttgga  1440
tattcaataa ctggttttcc atctttactc tgtttttcaa ttataggaca ccgaacaacc  1500
atgaccatcc aagaaatttt cttctggttc aattgaagaa ctgtctgttc ttctgtgtat  1560
gtaaagattt tgcaggtttt gatgggctaa atgtccttgt aaactgtaca atagcttcac  1620
acaatccgac atttctaatc ttctcattct tttctacctc atttggatga taaaataaaa  1680
tcttattttc ctcctgtcct tcgcgcggcc cgaagcgcgg gttgtagatg aagaaactca  1740
gcagcgccgg cgggaactgc ttctcctggg ccgcccaggg cccgctcccg gccccggccg  1800
tcgctgcgct gcagccatcc tggcccggcc cccacctcag gaagcctccc acggcccgcc  1860
cagagaccga gaaaatctct taatttcagt ggaactcagt ttgtttctct ttttaaacat  1920
tgccagttat aaatgtattt tattttaaa                                     1949
```


<210> 5636
<211> 947
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (290)...(191)

<400> 5636
```
attctatccc ggtccacagt ttaggaacca tggacaaaag tccaaggacc agaggcatgg    60
agttttcatt agaaggttct gaattcatct aatggctggt tattttaca gatgccaagt   120
ttacaaaaca tacaagtgca cagacaggtg tgggaggtag ctcgaaatat acagagtgtt   180
cgcaacacta gagacgtctt ctggctgcca tcaggggact cggaggtagg gtaggcttgg   240
tgaggcccgt ggcttgtgtc cgtggcacag cctcctgcaa aggggctgcc ctgctcccct   300
gttcccatgg tgccaggccg tgctccccag gtgcctccgg ggtgctgaag atcttttcat   360
agtactcgat cagcagttca gtgaacatgt tcagggcac aagggcactc agggaggaga   420
cccctggga tggccagatc aaattcagcc cgaagacaca ggccaggtta gagctgttca   480
ttttgttgaa gatgctctcc cgggacaccg catgcaggaa gcccatgagg tagcggagga   540
cgacgtagtt gtgctctggg aggctccgta agatctggcg gcagccagtg acacgcaggc   600
tgctctccac acctggaagg gcatggggct ccctgctgag ctccagaggg gccaggggca   660
gcgaggtgat cccgagaatc tgctcgtagg cctggaaggt cagaagcggc tggggcagct   720
ctcgcaggaa ggtcttcagg atcacggcag ggatgtgaat gtccccgtag tcgtcaaagt   780
tcacgggctt cccttggttg tagagcctct ggatctcgcg gacggtctgc acgctggcgg   840
atctccggaa caggccctcg gtgcgcaggc ctttctctct caggtacgtc actgtgaacc   900
tcagcacagg ggggatgagt tcgccttgat ttttgtcttt gaggtat            947
```


<400> 5637 — metadata block

<210> 5637
<211> 1749
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1713)...(331)
<223> similar to gi38262 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5637
```
caatttctga atagcaactg gaatattcaa ccaacaatgg tcatggtcag ttttgtattt    60
tttccttaac ttatatactt cattctttcc aactatttta aagctaaatc ttttttaaaa   120
aagtttaaa aataagtcac aggcaaatca tgaagagttg ggtttatttc aacagtaaat   180
ctgaaactct tgccttaagc aagagtacta cagtaattat atcaggaata gacaatttcc   240
tacactgtca aatatataaa agttcctttt gcactttctt caacactgat caacaagcag   300
attcagtcca catttgcttt gatctaacta ctgagttaac ccaagcttct tcttcagaga   360
ctctggcatc tcgggtggag gagggcgagg aagtctgaag tagaccttca cggagtcata   420
gataaaccac tgtagtgcag tcaggtacc aatcatgatg atacgggcaa acagtccctt   480
ccatacacct ttaaatccaa gtctcttgag gaccagagaa gcactgctac ctttttcttt   540
attcaacaca gataccacag aatcagcagg gtgagaaaca attgcacaaa agactccagc   600
tatgtaacct gctacaaatg ttacaaccag ctgctctggc tttgaacatt cactgcgggg   660
cttaggaacc acaaacttgt acagtgcttc aacagtacgt tcaaagcagg cgaacttcat   720
catggtgtat ggtatctgtc tcatccagag aggagcaacc cccttgtaga atgcttttag   780
gccttcttcc ttatacattt tgggagctgc atccctcaaa gtgttggcat aacctggctg   840
ggtttgaatt cgaaccttag cagcttccat aggagccagg gcaatgtcag caaagaattc   900
agcactggca gaggcagcca aatatagtga tgtgcgccag agataagtat tctcctctcc   960
aagcatattg cctatacaag cctttaaaga cttcataaaa gccaaacttg cagagtccct  1020
```

```
gcatggagta gccaaggaaa gtcggagccc atcctttagc caaaccacga acaccatcct      1080
ctttaagtgt aactgagaat ccgttaaata tgcccttgta cttttggggg tccacctgca      1140
tacggcattt cactaaatcc aggggaacca cagcagtgtg tgtcagacca caacttaaga      1200
ccccaccaaa gccacacagt gcataatact tcgcggagcc aaattcacaa ctgtactctg      1260
tagtaagaga agacacacca tgcattttaa tataaaactc atgttactgg tcataaactt      1320
acctcctgga cagttaggtt tccacacagc ttgttagatg actatatctt ataacttaac      1380
agtcagtcat gcttcaatat gctctagtcc agcatgcaaa acaaacctgc attctgcatt      1440
taaccagatc tagaggaacc aatgctgtat gtgttgtgcc acagctaata attcctccaa      1500
gtccacaaag gataaagaat ctgccagatc catagtcaca gctatactgc tcttccacgg      1560
cggcggctgc caggttgcga gggcggcggg gctggcccgt gggccctggg gagctgctgc      1620
ggaggtcccc gagaccatcg tgcaccagct gcagatgtgg cgtgttgaag gggttcgccc      1680
gcgccaggtg cgccacggac gagaacatct tttccctaag atggcgatca cacaaccact      1740
cccttggaa                                                               1749
```

<210> 5638
<211> 1600
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1582)...(1283)
<223> similar to gi1419759 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5638
```
tttcgtgtcc gtggcggctg cacgagcagt tcctgtgggc agtgggctca ggggcctgca        60
acggaccct a cctcttgtag tgattctcgg ggccacgggc accggcaaat ccacgctggc       120
gttgcagcta ggccagcggc tcggcggtga gatcgtcagc gctgactcca tgcaggtcta       180
tgaaggccta gacatcatca ccaacaaggt ttctgcccaa gagcagagaa tctgccggca       240
ccacatgatc agctttgtgg atcctcttgt gaccaattac acagtggtgg acttcagaaa       300
tagagcaact gctctgattg aagatatatt tgcccgagac aaaattccta ttgttgtggg       360
aggaaccaat tattacattg aatctctgct ctggaaagtt cttgtcaata ccaagcccca       420
ggagatgggc actgagaaag tgattgaccg aaaagtggag cttgaaaagg aggatggtct       480
tgtacttcac aaacgcctaa gccaggtgga cccagaaatg gctgccaagc tgcatccaca       540
tgacaaacgc aaagtggcca ggagcttgca agtttttgaa gaaacaggaa tctctcatag       600
tgaatttctc catcgtcaac atacggaaga aggtggtggt ccccttggag gtcctctgaa       660
gttctctaac ccttgcatcc tttggcttca tgctgaccag ttctagatga gcgcttggat       720
aagagggtgg atgacatgct tgctgctggg ctcttggagg aactaagaga ttttcacaga       780
cgctataatc agaagaatgt ttcggaaaat agccaggact atcaacatgg tatcttccaa       840
tcaattggct tcaaggaatt tcacgagtac ctgatcactg agggaaaatg cacactggag       900
actagtaacc agcttctaaa gaaaggtatt gaggctctga acaagtaac taagagatat       960
gcccggaaac aaaaccgatg ggttaaaaac cgttttttga gcagacctgg tcccattgtc      1020
cccctgtct atggcttaga ggtatctgat gtctcgaagt gggaagagtc tgttcttgaa      1080
cctgctcttg aaatcgtgca aagtttcatc cagggccaca agcctacagc cactccaata      1140
aagatgccat acaatgaagc tgagaacaag agaagttatc acctgtgtga cctctgtgat      1200
cgaatcatca ttgggggatcg cgaatgggca gcgcacataa aatccaaatc ccacttgaac      1260
caactgaaga aagaagaag attggactca gatgctgtca acaccataga aagtcagagt      1320
gtttccccag accataacaa agaacctaaa gagaagggat ccccagggca gaatgatcaa      1380
gagctgaaat gcagcgttta agagacatgt ccagtggcct ttggaaaggt ggtggggatc      1440
```
```

```
cagttcagga gggaggggta tgtttgtctc ccagtctggg caaaggagtg ctatgcggaa  1500
ttctctgcat agcagaaaag ctcccaccat tttcttttga tgtggtttta aagtctcacg  1560
ttctctataa tagaaacagc aggtcttgtc agctccttgt                        1600
```

<210> 5639
<211> 4405
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4406)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (4312)...(2392)
<223> similar to gi30866 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5639

```
cgggcatggt ggtgtttgcc tgtggtccca gctacttggg aggctgaagc aggacgatcg    60
ggtgagctga ggcagtcgag gctgcagtcc tcgagtgggc tcaggagaag cgtaagctga   120
gcgtgttgca tattcacgga gtctacacca accctagtgg cattgtcctt catccggctg   180
gatatcagaa cgtgctcagg aacactgaag tcatgagaga aattcagaaa ctctacgaaa   240
acaagtcatt tcttttcctg ggctgtggct ggactgtgga tgacaccact ttccaggccc   300
ttttcttgga ggctgtcaag cataaatctg acctagaaca tttcatgctg gttcggagag   360
gagacgtaga tgagttcaaa aagcttcgag aaaacatgct ggacaagggg attaaagtca   420
tctcctatgg agatgactat gccgatcttc cagaatattt caagcgactg acatgtgaga   480
tctccacaag gggtacatca gcagggatgg tgagagaagg tcagctaaat ggctcatctg   540
cagcacacag tgaaataaga ggctgtagta catgagcgag ctagagaaat caccaccgtt   600
tagaccaagc tgtaaggccc tactacagac agtgtttaac aagtaaactt tacaagaacc   660
caacacaatt ccccagaaag taacaatagc cagaggttga agggcggggt agaagagggg   720
ggaatgttgc aagcgtaatc cttcatacca ccctggttct tggatattct gccgcctgtt   780
caagttcaag aataaaagcg aacagcagga ccccaaatgc agctccccaa ccccactccc   840
ccaggcctag acatgccttg tgtcccacac agcacaccca atgtgatact tcccactgac   900
ccggctgcag ctctgcatga aggactcggg gtcctggatg cccatgggaa tcactgtggg   960
ctcttgttgc agttttgtac ttctattact tggttttttc aattaagctt aatggctttt  1020
ttaaaaacat gacttgaagc tctagttttc taggaccttt tacagtgtta cagtattttt  1080
acataactaa gcctgtattt aaaagcttgt ttcatttacg ttgccaggac cctggctcta  1140
cttttagagc tcattgtaag aaactctaac ttgcatcaag gtactaataa gcttaatttt  1200
aataacccaa agtttaaagg ttccgatctt tctccttggg gtggagtgat ctcattctca  1260
ggacaaccgt ttacttacct gattcctcgg agcattatca acttctgctc tgttgtcctg  1320
accatacata tgtcctagaa ctacagttaa gtgtgttgtg gaattttagt tttgaatcct  1380
gtataagaga actccaagac ctaaaaggca atttatttat gaaatttatt ttcttatata  1440
aattacttat ttctctgggc agacagcctt caccttattg cactaatagc acatctgtaa  1500
tatcaagcta caggacaagt cttaacaaga ggtttgtgtt cttcaatgta gcacttgtct  1560
accaggcact gtagagggga gtgatgagga aaagccagga ctgcttagga ggtgaaggat  1620
gggaggggag ggggtcatca tacatccttc tgacaattgg tttcctccca ggaaggggaa  1680
catgcagagc ttacttctgg attctgggag tgggaagagt tgggaggcca agaagcccaa  1740
```

4170

```
tgcaacgctg cagctgagct cctttttattt ctgagggaag caaggactca tcttttgctc    1800
atttgtaaca aatcactcca gcctagctga tgctttgggg taaacaatgg agtaggagtc    1860
atcatcagaa ttagaattag cagcaattaa caggcaatac actgccacag tgaggcgggt    1920
gtcatccagg tcctggggac ctgcaggctg tgtatcctag ggagaggtgc cattcaagac    1980
ctggcgctgg ctctggaaga gtctcttaac ctaatgcagc tgggactcat taggctcaga    2040
cggctcttga ccacactaat tattagcaaa gctctggtgt tgggttccaa ccattggtca    2100
aagctgtaat aagactgagt ctgtaggcag agtgaagggg gtgcctgagt aggaagggg    2160
aggcccgctg ggagagggtc agtgggcagt gattgtaaca tgattaggcc ttccttgcag    2220
atggcggctg tgctgaacgg ggagtggggt tggaaggagc cacaagcccc ctcactctgc    2280
ctttgtacta cactgaagac aggttgctca catactctaa agcacattct tgatacagga    2340
agaagggctt gtggggaaag cggcgatttg gtattgggca agagccacgt taagccttca    2400
tgagggcagc caccacagcc ttggcattga ggctgcgtag gtcacagtag gtctggccgg    2460
tgcccacaaa gacgatgggt ttgcttgtga tgtacgtcat agaaatagca gctcccacct    2520
tgtcatcaat ggaatcaaat ttggtaagaa caatgccatc aatgagccga ggtgtctgag    2580
ccatagaatg gtcagccaag gctctgttga acttgaccag ctggtccacg gcttcattgc    2640
ctactaaggc ttctcctaca aacagcacca aatcaggtgt attgacagta atgagtttgg    2700
ccagggcagt catcagaggg gcattgtctt gcatgcggcc tgccgtgtcc accagcacca    2760
cgtcaaagcc ttggttacgt gcaaaagcaa tggcttccat ggcaatgcca gcagcatcct    2820
tgccatagcc cttttcaaac aactgcacca tggtgcggcc accatgcttc tctggagggt    2880
gtagggcact caaacgccgg gtgtgtgtac gcagctgctc cacggcccca gcacgaaatg    2940
tatcacaggc agcaatgagg acactgaagc cattctctaa caaccagaag gaaatcttgg    3000
caagattagt agatttcccc actccattaa cgccgcagaa ggtgacgaca taagggcgct    3060
tggcgacgct gggcatccat gatgtcccgg agcatgtcta cacggacgct gtggctgcac    3120
gaatctgcac cagggactcc tgtagggctt gctttactgt ggaagtcacc gtgctgaacg    3180
tccccatcac cttcccttcc aacttgttgg caacagattc acagagctgg acggcaatgt    3240
ctgcagccac gttcttagca atgagatgat cacgcatctt gtccagcaca gattccatgt    3300
cttcacgact caagctcttt gaacccacaa ggcccttcag cataccaaac atgccaccca    3360
gtgttccctt ggtcgcacta ggtttggtag agttttgagc agcccctтcg tcatcagagc    3420
tgctgcagtc cagatcctga agctgccccc cagacccagt ccctcgaatc aggttgatgt    3480
cctcagacaa ggcagcctca ggggttccat tggtggtggg agtactggaa tccaacactt    3540
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gagcatctga cttcgtggac ttgttggact tctccatacc cctcccatgc ttctgaatga    3660
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aaccttcctt cttggccccc ttttttttgc tattctttgc ttttttcttg ggcttttccc    3840
cccgtgtctc aatcatggac ctcacaggtt tcttggcctt ttcagaatct tcaaatttct    3900
tcatggtagt gggagcacgg atcttactgc tctcctctgc ttcacgaagg agccgcagga    3960
agtcattttg gaaatcaaaa gtgcccattt aataaacttt aaagccactt tgctgttgga    4020
tctctgtgcg gtacttgtcc cgaaacagcc gatgcacgtc atctatcaat ttgtctacat    4080
atgtcagtgt caggatcttc tgaaaaccaa ccacaaacac cagctcaaac tggttgtcca    4140
gtttatactt gagtgtgagt gcctcatggg tgaaagaagg ttgttacctc ncccgttcc    4200
tgcagcagca cggaacgaat caacgcgtta acgggtccgg tgcatgagtc gctaacgccc    4260
tggaagcacc agagcacaag cccgcccttg gagaaaatgg tgaagaaagt cgagcatggc    4320
ggcagcggca gaggagctgg ggccggcgcc gggaattcag gccgcgttcg ccgccgcttc    4380
ctgctgcgcc aagcgcggga cacgt                                         4405
```

<210> 5640
<211> 7027
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

```
<400> 5640
gggcggccgt tcccgcggcc ccctcgcgct ttgcccaggc tccccctgcg aggccggagg    60
caggatggaa gatggactgt ggatttcgag gagtgtctga aggacttcgc cccgcttcag   120
ggcagctttg gaagaagtag aaggtgatgt ggcagaattg gaactaaaac ttgaataagc   180
ttgtgaaact ttgtattgcc aatgattgat actggaaaag ccttttgtgt tgcaaataaa   240
cagttcatga atgggattcg agaccctggc tcagaattct taataatgat gcttgtcgtt   300
gagaccaagt ttgccccaag ttttctggac agtcttcaag aaatgataaa ttttcacaca   360
atcctgtttg accaaactca gagatcaatt aagggcacag ctttcagaac tttgttaaag   420
aagatcttag aaaattcaaa gatgccaaga agcaattcga aaatagtcag tgaaagagaa   480
agaaaattgc gttagtaaaa aatgccccag tacccagtag accagccagc ttggagttgt   540
agaaacccccc caacattctg acagcaacaa gaaaatgttt ccgacacata gccctcgatt   600
atgtgcttca gattaatgtt cttcaatcaa aaaggagatc agaaatccta aaatcaatgt   660
tgtcatttat gtatgcccat ttggccttct ttcatcaagg atatgatctg tttagtgaac   720
ttggacccta catgaaggat cttggtgcac agttggatcg actggttggg gatgcagcaa   780
aggagaaaag agaaatggag caaaaacatt ccaccattca acaaaaggat ttctccaggg   840
atgattctaa attaaaatat aacgtagatg ctgcaaatgg catagttatg gaaggatatc   900
tgttcaaacg agccagcaat gccttcaaaa cttggaacag gcgctggttt tcaatacaaa   960
ataatcaggt ggtttaccag aaaaaattta aggataatcc gactgtggta gttgaagacc  1020
tcaggctttg cacagtgaaa cattgtgaag acatagagcg acgattctgc tttgaggtgg  1080
tctcgccaac aaaaagttgt atgctccagg cagattccga aaagctgcgc caggcatgga  1140
ttaaggctgt tcagaccagt atttgctact gcttatagag agaaggatga tgaatcagag  1200
aagctggata agaaatcatc tccatccaca ggaagcctag attctggaaa tgagtccaaa  1260
gagaaattat tgaaaggaga aagtgcgctt cagcgggtcc agtgtatccc tggcaatgcc  1320
agctgttgtg actgtggcct ggcagatcca cggtgggcca gcatcaacct gggcatcacc  1380
ttgtgtatcg agtgctccgg aattcaccgg agccttgggg ttcatttttc aaaagtacga  1440
tctttaactt tagacacctg ggagccagaa cttttaaagc ttatgtgtga gttggggaat  1500
gatgttataa atcgagttta tgaagctaat gtggaaaaaa tgggaataaa gaaaccccaa  1560
ccaggacaaa gacaggagaa ggaggcatat atcagagcaa aatatgtgga gaggaaattt  1620
gtggataaaa tattcctata atcattatca cctccctgag cagcaaaaaa aagtttgtct  1680
ctaaaagttc tgaagaaaag aggctgagca tttctaaatt tggccccagg ggaccaagtc  1740
agagcatctg cccaaagttc agtcagaagt aatgacagtg gaattcagca gagctctgat  1800
gatggaagag aatctttacc ctccacggtg tcagccaata gtttatatga gcctgaagga  1860
gaaaggcaag attcttctat gtttcttgac tcgaaacatc ttaatccagg acttcagctt  1920
tatagggcgt catatgaaaa aaaccttcct aaaatggctg aggctttggc tcatggtgca  1980
gacgtgaact gggccaattc agaggaaaac aaagcgacac cacttattca ggctgtatta  2040
gggggctctt tggtgacgtg tgagttcctc ctacagaatg gtgctaatgt caaccaaaga  2100
gatgtccaag ggcggggacc attgcaccat gccaccgtct tagggcacac agggcaggta  2160
tgtttattcc taaaacgagg tgccaatcaa catgccactg atgaagaagg gaaagaccct  2220
ttgagcatag ctgtggaagc agccaatgct gatatagtca ccttgttacg tttagcaaga  2280
atgaatgaag agatgcggga atcagaagga ctttatggac agccaggtga tgaaacttat  2340
caggacatat ttcgtgattt ttcccaaatg gcatccaata atccagagaa actaaatcgt  2400
ttccagcaag attcacagaa attctgaatt tttttaaaaa tgggaaaata tgcccatctg  2460
gtgaccccct aatgtataca gctaaaaatt cacaattttt ttactgcttt aattctactt  2520
aattttggta gatattgaat ggcttggaaa agaggtaccc attcatatat ttataaatta  2580
ggggagtagt tatctagtag taggagagga acctagttta ggacctcttt tatttaaaaa  2640
agcctatttta aagggctaat ttctggtaga cagaagttca gtctagattt aggccatctc  2700
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```

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atacacataa tatatgattt attagaacta gagaatgtgt tttccccgtt tgttcataaa    3000
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ataaaggctg tacaggtaga ccataattca gtcccttaga tttattttat gcagcaaaaa    3120
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aagtatggtc gcagtaaatg aaattgtgtt taagactaaa tttactaccg ttttgaacag    5700
acattcccag atcattctta tattgtcaga taacacttgt gtataatatc actttggatc    5760
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aaccgcatga tacggtggaa ggagcactgg actagtcgtc actacccttt ttggattcag    5880
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tgaaatcatt gtaaagcagc gaagtctgat aatgaatgcc agctttcctt gtgctttgat    6240
aacaaagact ccaaatattc tggagaacct ggataaaagt ttgaagggct agattgggat    6300
ttgaagacaa aattgtagga aatcttacat ttttgcaata acaaacatta atgaaagcaa    6360
```

                                         4173

```
aacattataa aagtaatttt aattcaccac atacttatca atttcttgat gcttccaaat   6420
gacatctaca gatatggttt tgtggacatc tttttctgtt tacataaatt tatccactta   6480
aaatgtgata atgtggagac aaagcaagat ttgattacat aaacttttct ctgcattggt   6540
cttttcacta tcttatttgc taacttttct tatttttctt caacctcccc accctccatt   6600
ttttggatat aaaacaggga aagcttgcta cattataaag attgttggca ccatttattt   6660
tacacaaagg ctaaaggtta acttttggaa atgatgagct acttttatat atgtgtttac   6720
tcatgctttg tgatatttct ggatcattcc agtcataaag acttattaca tgtactattt   6780
cttgctacct gtgaaaaggt atattttaaa gaatgtataa ccaacagtcc atttactttt   6840
tattagtatg tagaggattt gtatctaatt catgaatgta gttttacagt agtttgtcat   6900
tgtaaatgga gcaaagtaca ttatcttcta aaatgtacat tatgtaagaa ttgtaaatat   6960
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aaaaaaa                                                              7027
```


<210> 5641
<211> 3844
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3845)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (893)...(3611)
<223> similar to gi3413882 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5641
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ttaaagaaga agttggatca attgaagtca acccttccag atcctgaaga atcaccagtt    180
ccttccccaa gcatggacgc tccctccccg actggttctg agtctccttt tcaggaatg    240
ggaggtgagg aatcccagtc accaaccatg gagagtgaga aatctgccac acctgaacct    300
gtgacagata atcgtgatgt ggaagacatg gaactctcag atgtggaaga tgatgggtca    360
aaaatcattg tcgaggacag gaaggaaaaa cctgcagaga agtcagctgt atccacttct    420
gtacctacaa agccaacaga aaatatctca aaggcctctt catgtacccc agtgcctgtg    480
accatgacag caactccacc tcttccaaag cctgtgaata cttctctttc cccttcccca    540
gcattggctt tgccaaacct ggctaatgtg gatctggcaa agatcagttc catccttagc    600
agtttaacat cagtcatgaa aaatactggg gtcagtcctg catcaagacc ttctccagga    660
acgcccacca gcaacagcat cctcaccagt ggcctgaaaa cacctgcacc tgccacgaca    720
acatctcaca accctctggc aaatatcctc tccaaggtgg agatcacccc agagagcatt    780
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tttacttcag agtgttactg ggaacccagt tccagccagt gaagctgcct cacagagcac    900
ttcagcctcc cctgccaaca ccacagtcta taccataaag ggaagaaatc tgccctccag    960
tgcccaacct tttattccca aaagcttcaa ctattctcct aactcatcaa cttctgaagt   1020
ctcttcaact tcagccagca aggcctcaat tgggcaaagc ccagggctcc caagcactgc   1080
ttttaaacta ccttccaaca ctaaggggtt tacagctacc cacaatacta gccctgctgc   1140
cccacctact gaagttacca tctgccaatc ttcagaggtc tccaagccaa agctgggagt   1200
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4174

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cagagtccac ctccccaagc ctgggaaatg aagattcaca acttcttaaa aggtaatcct    1260
gggttttcag tggcttaaaa cttaaaacat cccaatcctg naggcagttt ggggtccagc    1320
gccccatcag agagccatcc ctcagacttc cagcgtggcc ctactagcac ctcaatcgac    1380
aacattgatg gaacccctgt acgggatgaa cggagtggga cacccaccca ggatgagatg    1440
atggacaagc ccacatccag cagtgtagat actatgtccc tgctttctaa gatcattagc    1500
cctggttcct caacacccag cagtacaaga tcaccacccc ctgggagaga tgaaagctac    1560
ccccgagagc tctccaattc tgtatctaca tatcgaccct ttggtctggg cagtgaatct    1620
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gaaaagttct acccagatac ttcttttcaa gaagatgagg attaccgaga ttttgagtat    1740
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cagaagcagt acccagactc tcctcaccca gtcccacatc gttcccttttt ctctccgcag    2160
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aagccctcag atgataagca ttttggccag gctcccagca agggcactcc aagtgatggt    2340
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cccaggtact gatggaaacc aagggaaagg cattttgaac agtctagaga acattggaag    3660
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aaaa                                                               3844
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<210> 5642
<211> 390
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 5642
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aggcctacat tgtgacagag aagagagggt taacatcagt ctgggccaga cagtgaactt    120
ataatgttat ctcttccaag tgaatgcaaa ccgtgtctga gcctcctctc tgatgggggat   180
tggaaagaat gcctttctcc caggccagtg accacataca agttccagag gccctgctgt    240
cctgttgtac taaggatacc acgtctagca cagcacctgg actatgggtt acagcttggt    300
taagtttatg taacccacta ccattcacca taatccatct ggcttctact ggggccatat    360
tggtgaatta aagtctctga aagtagaact                                      390
```

<210> 5643
<211> 2152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2153)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1405)...(912)

<400> 5643
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aaaaggcagg caatgcagag acaccgtggc ccaagcagag ggggtgcaag gcaggcacag    180
agcagggggc ctgatggcgg attggggagg tggagaaccg gtcagccctg cctagacctt    240
gggactggtg acacccacaa cttttgaaggg ctgccctccc ccaccaggaa tggcacttgc    300
ccggggcacc cttgtgggga gggcccagct cctccacctg ccctgagccg ggtccagctt    360
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ttgttggtgg ccctgggacc ctgggcaagt ccctaaggaa cttccaggat cccatagaag    540
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cgaggcctgg cccctcaaac ctgctcctgt cggggaagct caggagcaga taggcgaaaa    660
gcaggggggac ccacctgggg ggaggggggca gcagacagag cagccaggcg ggcagcagag    720
cagggacacg cacacacggc tcaccaccag cacccccttt aataaaacat ggggggggggg    780
tcatgtgaca ggaagaaggg ggtgaaatag gaccatttta caaccacaga aaaacctctg    840
taacaatgtc ctaacgccct ggcaagaagg gggcaaccag ggcaaccaag cgggctggaa    900
cccagcccta ttttgtagag gatatcgtag tgtcccaggc cggtagagaa ggtagacctt    960
tgggctcgga agccctcagg gaaagatgtg cggattggtg gttgccgccc tcgnccgcgg   1020
```

```
tcccatgtac tcccaccctg gatggacacg ctgaaggccc tgggccagcg caatgatgtg    1080
gatgtggtcg ctctccttgc acatgggctc caccttcctg cttggcagaa ctccttgaca    1140
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cggggcccct ggagccagga gccgaggggt tgggcagagg gcggagacga aa            2152
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     <400> 5644
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caaggaaaag atgcaaaacc acttcggggt taatcagtga aatatttttc ccttcgttgc    180
ataccagata cccccggtgt tgcacgacta tttttattct gctaatttat ggacaagtgt    240
taaacaggaa caaggaatta ttccaacaag ttatggcaac atgttgctta ttttcaaagt    300
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gactttgggt tagttaaatc taaacttatt taaggattaa gtaggataac gtgcattgat    420
tttgctaaaa gaatcaaggt aataattact taagctgatt cctgagggtg ggtatgactt    480
ccaagctgga actccatcct tgatcgggta gggatttttt aaatcccatt tttggtaaaa    540
ctatttccca aggaaatttt aaggcccttt cacttcagga aagaaaaaag gttgttgggg    600
ggctgaggca ctttaatttt cttgagcagg gaagggagtt tcttcccaaa cttcacccat    660
ctggggatac tgggtgtttc ttttacagga ttcctccttt aatttctgtt gagtagccgg    720
gatccttggg aggcatgtag gaagcccgct ggatcatcac gggatacttg aaatgctcat    780
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```
gcaggtggtc aacatactca cacaccctat tttcaaggct tgcagaaact gatatgtagt    840
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caggaatttc aaactttttg gccatcagca atactgagag gttctcattg acactgccca    960
gtctgcaact gtcaatctgg aggaactgca gggccttcgc ctgtaggagt tgcttaaata   1020
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cagcgctggt tggcatccat catcaaagtc ttttccggtc caatcatgtc tcggatgatt   1260
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gcgcacgatg tcgtgtaagc agggtatcct tgtgccagca tttgcttctc tctttctttt   1440
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gagtagtcag ggtccgtgtg catggcgtcc gcgccgtggc ccccaagcga cgtggggaag   1920
cgcacgtccc ggaccgagag ccgggagatc ctgccgcgca ccatggcccc tgcgccccgt   1980
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cgag                                                                 2044


        <210> 5645
        <211> 5154
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (296)...(5089)
        <223> similar to gi5817151 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters


        <400> 5645
gtgtcatggc gctctccatc taaagtctgt gcagcttccg gagagtggcg ggttgatttt     60
ctcactttgg actggttttt acttcccgac ttctggactc atctttcaag aggactttag    120
actaattgca gataattaag agaatatgcc ttctgcatcc tgtgatacac tactggatga    180
catcgaagat atcgtgtctc aggaagcaca gacaaggttg tgtttgacag agaaaggggc    240
tttcttggtg agataaaata gtctcttcct gtatttctct cctttctcct tttttagttg    300
ctctgggaaa ggaattctct ctggtcatgc agatggtacc atcgttaggt atttctttga    360
tgatgaaggc tctggagagt cacaggagaa gttggttaac cacccgtgtc caccctatgc    420
cttggcatgg gcaaccaata gcatcgtggc tgcaggctgt gatcggaaaa ttgtagccta    480
tggaaaagaa ggtcacatgc tacaaacttt tgattatagc cgtgaccctc aggagcggga    540
gttcaccaca gctgtatcaa gtcctggggg ccagtctgtt gtgctaggaa gttatgacag    600
gcttcgggtg ttcaactgga tccctcgaag aagcatctgg gaagaggcaa agcccaagga    660
gattaccaat ttatacacca tcactgcctt ggcctggaag cgggatggct cacggctctg    720
tgtgggcaca ctatgtggtg gggtggaaca gtttgactgc tgcctccgaa ggagtattta    780
caagaacaag tttgagttga cgtatgtggg acctagccag gtgattgtga agaacctgtc    840
atcaggaacc cgagtggtgc tcaagtcaca ctatggctat gaggtggaag aggtgaaaat    900
```

```
cctaggaaag gaacgttact tggtggctca cacatcagaa acactgctgc tggggggacct    960
gaacactaat cggcttagtg agatagcctg gcaaggatct ggtggcaatg agaagtattt   1020
ctttgaaaat gagaatgtat gcatgatctt caatgccgga gagctaaccc tggtggaata   1080
tgggaataat gacaccctgg gttctgtacg cactgaattc atgaacccccc acctcatcag   1140
tgttcgtatt aatgagaggt gtcagcgagg aacagaagat aataagaaat tggcttatct   1200
tattgatatt aagactattg ctatagtgga tctgattggt ggctacaaca ttggcaccgt   1260
cagccatgag agccgtgtgg attggctgga acttaatgag actggacaca agctcctctt   1320
cagggaccgg aaacttcgtt tgcatctgta tgatattgaa agctgctcta agacaatgat   1380
cctcaacttc tgctcctata tgcagtgggt cccaggaagt gacgtgctgg tagctcagaa   1440
ccgaaacagt ctgtgtgtat ggtacaacat tgaggcacct gagagagtca ccatgttcac   1500
tattaggggt gatgttatag gtctggagcg gggcggggga aagaccgagg tgatggtgat   1560
ggaaggtgtg actactgttg cctacacatt ggatgagggc ctcatcgagt ttggaacagc   1620
cattgatgat ggcaactaca tccgggcaac agccttctta gagactctgg aaatgacccc   1680
agaaacagag gcaatgtgga aaaccttgag taaactggca ctagaggcaa ggcaactaca   1740
cattgcggag aggtgctttt ctgctttggg ccaagtagca aaagctcgat tcctgcatga   1800
gaccaatgag attgcagatc aagtatcccg ggaatatggc ggagaaggaa cagactttta   1860
tcaggtccga gcacgtctag ccatgctgga aaagaactac aaactggctg aaatgatctt   1920
tttggaacag aatgctgtgg aggaggccat gggcatgtac caggagctac accgttggga   1980
tgagtgtatc gctgtggctg aagccaaggg gcacccagcc ctggagaagc tacgtcgtag   2040
ttactaccag tggctgatgg acacacagca agaggagcga gcaggtgaac tacaggagag   2100
ccaaggggat gggctagcag ccatcagcct ctacctcaaa gctgggctcc ctgccaaagc   2160
tgctcggctg gtgctgaccc gagaggaact gctagccaac acagagctgg tagaacacat   2220
cactgcagcc cttatcaagg gggaactcta cgaaagggca ggtgatctct ttgagaagat   2280
tcacaatcca cagaaggccc tggagtgcta ccgtaaaggc aacgcattca tgaaagcggt   2340
agagctggct cgattggcct tcccagtgga ggtggtgaaa ctagaggagg catgggggga   2400
ccacctggtg cagcagaagc agcttgatgc agccattaat cactacatcg aagccaggtg   2460
ctccattaag gcaattgagg ccgccctggg tgcccgccag tggaagaagg caatttatat   2520
attagatcta caggaccgga acactgcatc caaatactat cctctcgtgg cccaacacta   2580
tgcatccctg caggagtatg agattgctga ggagctctat actaagggag atcggacaaa   2640
agatgccata gacatgtaca cccaggctgg tcgttgggaa caagcccaca agctggcgat   2700
gaaatgcatg agaccagaag atgtgtcagt gctatacatc actcaggccc aggaaatgga   2760
gaagcagggc aagtaccgtg aggctgaaag gctatatgtg acagtacaag agcctgatct   2820
tgccatcacc atgtacaaaa agcacaagtt gtatgatgac atgatccgcc tggtagggaa   2880
gcaccatcca gatctcctca gtgatacaca cctacatctg ggcaaggagc tggaggctga   2940
aggccgacta caggaggctg agtaccacta cctcgaggcc caggaatgga aggcaacagt   3000
gaacatgtac cgggccagtg ggctttggga agaggcctac agggtggcca gaactcaagg   3060
agggggctaat gcccacaaac acgtggccta tctgtgggca aagagcctgg gaggagaggc   3120
tgcagttaga ctgcttaata agctgggact cctggaagct gctgttgacc acgctgcaga   3180
caattgctcc tttgaatttg cgtttgaact ctctcggctg gccctcaagc acaaaacccc   3240
cgaggttcat ctcaaatatg ctatgttcct ggaggatgag ggtaaattcg aagaggctga   3300
ggctgaattc atcagagctg gtaaacccaa ggaggcagtc ctcatgtttg tccataacca   3360
ggattgggag gcagctcagc gtgtggctga ggctcacgac cctgacagtg tcgccgaggt   3420
gcttgtggga caggcccggg gggccttgga ggagaaggac tttcagaaag cagaaggct   3480
gctgctccgg gcccagagac caggcctggc cctcaattat tataaggagg ctggattatg   3540
gagtgacgct ctgcgcatct gcaaggacta tgtgcccagc cagctggagg ctctgcagga   3600
agaatatgag cgggaagcta ctaagaaggg ggccaggggt gtggagggat ttgtggaaca   3660
agctcgacac tgggagcagg ctggagagta cagccgtgcc gtggactgct acctcaaagt   3720
gcgagactct ggaaacagcg gcctggcgga gaagtgctgg atgaaggcag ctgaactctc   3780
catcaagttt ctgcctcccc aacgtaatat ggaagtcgtt ctggctgtag acccccagct   3840
gattggaatt ggaaagcaca gtgcagctgc agagctctat ctgaatctgg accttgtcaa   3900
ggaagcaatc gatgctttca tcgagggtga ggagtggaac aaggcgaagc gtgtagctaa   3960
ggagttagat cccaggtatg aagactatgt ggagcagcat tataaagagt tcctcaagaa   4020
tcagggcaaa gtggactcgc tggtgggtgt ggatgtgata gctgctttgg ccctgtatgt   4080
ggagcagggc cagtggggac aagtgcattt gaaacagcta ccaagcagaa ctacaagatt   4140
ctgcacaagt atgtggcttt gtatgcaact cacttgatcc gggagggtag ctctgcccag   4200
gcattggccc tgtatgtaca gcacgagcc cctgctaacc cacagaactt caatatctac   4260
aaaaggatct tcactgacat ggtgagctct cctggaacca actgtgccga ggcctatcat   4320
```

4179

```
agctgggctg atcttcgaga tgtcctcttc aacctggctg tgctgtctcc ctcctctagt    4380
gtgaaaacct ggtgaagtcc agtgaggcaa actctccagc ccatgaggag ttcaagacga    4440
tgctgctgat cgctcattac tatgccacgc gctctgcagc ccagagtgtc aaacagctgg    4500
aaaccgtggc tgccaggctt tctgtttcac tcttgcgtca cacccagcta ctacctgtag    4560
acaaagcctt ctatgaagca ggcattgctg ccaaggcagt tggctgggat aacatggcat    4620
tcatcttcct caatcgcttt ttggacctga ccgatgcaat cgaggaaggg actctagatg    4680
gccttgacca ctctgatttt caggatacag acattccctt tgaggtgcca ctcccagcta    4740
agcagcatgt accggaggct gagagagaag aggttcgaga ctgggtgctt acagtctcca    4800
tggaccagcg gctggagcag gttctgcctc gggatgacgc gtggcgccta cgaggcctcc    4860
ctagtggcag cgagcactgg tgttcgagcc ctgccctgcc ttattacagg atacccatt     4920
ctgaggaaca aaattgaatt taagcggcca gggaaggctg ctaacaagga caactggaat    4980
aaattcctta tggccatcaa gacctccac agcccagtgt gccaggacgt gctgaaattc     5040
atcagtcagt ggtgtggagg gctccccagc accagctttt cctttcagta gttggtagag    5100
ctgaggaaga gttagggcct ctccctcatt aaagttttat aaataaaaaa aaaa          5154
```


<210> 5646
<211> 1690
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1691)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1654)...(764)
<223> similar to gi563377 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5646
```
gttttccaaa ggggattaat ttggggaacc cccgggtttt tcccctcccc ccgttttttaa      60
aacccggccc cggaatttat ttttgggggc ccaaaaaaaa aaaatttact ttcccacccc     120
cgggcgttaa aattggttcc tttaaaaggg ccccccctt ttttttttttt gtgggtgtta     180
gacatcaact ctacatttat tgcagtcctt taagtctatg acggcggggc agccgctgac     240
agcatgcaga gcaagttagg aaaaaccgag gccctgtggg aacagcaacg cgggctccag     300
ccaggctctc gtcctcgcag cctcccacaa gacctggggc tcagggcagc cgcttcccca     360
cccagcacag cagcagaggg gccctagagc ccccacagaa aggactgtcc cagcctcggg     420
agcaagagat ggctccctcc ggacgggcct catccaactc cgccctggag tgtggctgga     480
aggaagggac agagaaagaa gggacagagg aaaggggctg tcccagccca agaaggcagt     540
tccactggga agtcagtcag gtccggcggc agcgcttcct ctggcagggc cgaggctcgc     600
gactgctggg gtgggcggag gtcgctgcct ggggatcgga cactggagcc ttgcggcggc     660
tgcaactcat gctcaggacc cagcccagct tgttgtgtag cacctgcttg aggcccggcg     720
gcagcggcag accctccagc gtgtctcccg agtctggccg cagctggcgc aggcggtggc     780
agcacaggta ctggagggaa gtggcgctgg cacaggagcg ggtgaccttc atgctgctcc     840
gggccgccgt ggagcacacc atcgggtaga atctcttgtt ctgcagcttg gtggctgcca     900
cacctggaag ggaggggccc agcctataca cttcctgttc ttgaaaaagg tgagtgtgcc     960
gtgccaggtg tccaggtgca cgccaatgat ggagccctgg ccgaaccgcg acgagaagct    1020
ggtcttgtcg cccttgtggt ggaggaggcc cgtgtaggag aggccccagc tgtcctcatc    1080
```

```
cctgcccagc aggctgcaga acgtgtggcg gtatttgtcc aggtccacat ccgacgtccc   1140
gatgcccacc atcatgtcgg tgccgtagac gggagaggtc atcttgatct cccagaagtg   1200
ctggccctcc cccagctcct tggtgccccg gatggccgct gtgccgcagc tgtactccat   1260
gtggaagctg accttacggt tgtcacagct cagcagggtg gctgatgact tatttaagtc   1320
atcccagacc cagtcgaaat actcgtcttc ctctccgcag cggcagtccc tgccccggtg   1380
ggccgagtgc aggctgctac agaaggaggc ctcgctctgc ccagcacagt cacagaagga   1440
ctcgccggtc acgggcaccg cactggggat ggatggcggc agcgtggagt actcggggtc   1500
ggagtccgag tcgctgtgct gcccatcaga gtcgtagccc cagttagtgg agcctgctag   1560
agccacggcc cgggcatctg cgtctcggcg ggctgcactc aggacgaagt gccaggccct   1620
gctgttccgg gggcgtctgg ccatggtgga aagaatctgc agcacnccct gcgcntccgc   1680
cggcccggcc                                                         1690


<210> 5647
<211> 2203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (769)...(1907)
<223> similar to gi5912057 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 5647
gacccacgcg ttcgcccacg cgtccgccca cgcttatgct ctattatatt aactctttct     60
tacctttttt tctgaacttc taggccttct ctttccagaa ctggtggaag acaaatgaaa    120
cggccaagat ggtaagaaac aagccgcatt tctccttggg gagactgata atttaaaagg    180
tttgttgtgt caaaaacatt cccagcttca tcaccaaccc tttccttcca cctctgccca    240
ctggagacca cttatatccc gaagcggacg cggcagctga agtcaggaaa ccatgcatca    300
cattagcagg agccaactgc agactttaaa ctccgttcaa catgtggatg cggcagagaa    360
atgacctgtc cagacaagcc ggggcagctc ataaactggt tcatctgctc cctgtgcgtc    420
ccgcgggtgc gtaagctctg gagcagccgg cgtccaagga cccggagaaa ccttctgctg    480
ggcactgcgt gtgccatcta cttgggcttc ctggtgagcc aggtggggag ggcctctctc    540
cagcatggac aggcggctga gaaggggcca catcgcagcc gcgacaccgc cgagccatcc    600
ttccctgaga tacccctgga tggtaccctg gcccctccag agtcccaggg caatgggtcc    660
actctgcagc ccaatgtggt gtacattacc ctacgctcca agcgcagcaa gccggccaat    720
atccgtggca ccgtgaagcc caagcgcagg aaaaagcatg cagtggcatc ggctgcccca    780
gggcaggagg ctttggtcgg accatccctt cagccgcagg aagcggcaag ggaagctgat    840
gctgtagcac ctgggtacgc tcaggagca aacctggtta agattggaga gcgaccctgg    900
aggttggtgc ggggtccggg agtgcgagcc gggggcccag acttcctgca gcccagctcc    960
agggagagca acattaggat ctacagcgag agcgccccct cctggctgag caaagatgac   1020
atccgaagaa tgcgactctt ggcggacagc gcagtggcag ggctccggcc tgtgtcctct   1080
aggagcggag cccgtttgct ggtgctggag ggggcgcac ctggcgctgt gctccgctgt   1140
ggccctagcc cctgtgggct tctcaagcag cccttggaca tgagtgaggt gtttgccttc   1200
cacctagaca ggatcctggg gctcaacagg accctgccgt ctgtgagcag gaaagcagag   1260
ttcatccaag atggccgccc atgccccatc attctttggg atgcatcttt atcttcagca   1320
agtaatgaca cccattcttc tgttaagctc acctggggaa cttatcagca gttgctgaaa   1380
cagaaatgct ggcagaatgg ccgagtaccc aagcctgaat caggttgtac tgaaatacat   1440
catcatgagt ggtccaagat ggcactcttt gattttttgt tacagattta taatcgctta   1500
gatacaaatt gctgtggatt cagacctcgc aaggaagatg cctgtgtaca gaatcggattg   1560
```

4181

```
aggccaaaat gtgatgacca aggttctgcg gctctagcac acattatcca gcgaaagcat   1620
gacccaaggc atttggtttt tatagacaac aagggtttct ttgacaggag tgaagataac   1680
ttaaacttca aattgttaga aggcatcaaa gagtttccag cttctgcagt ttatgttttg   1740
aagagccagc acttacggca gaaacttctt cagtctctgt ttcttgataa agggtattgg   1800
gaaagtcaag gaggtagaca aggaattgaa aagcttatcg atgtaataga acacagagcc   1860
aaaattctta tcacctatat caatgcacac ggggtcaaag tattacctat gaatgaatga   1920
caaaagaatc ttctggctag ggtgttagat atatttatgc atttttggtt ttgttttta a   1980
atcaagcaca tcaacctcaa gcccgtttag caatgaggca gtgtagatga atacgtaaaa   2040
taaatgactt taaccaagta gctataatgg gacttagcac tgtatgcata cttaaaaagg   2100
ttttgaaaaa caaactactt gagaaatatt tgtttatatt tttctctaac atcatgctat   2160
gtgtcagtct gaacatctga caacagaaat ttcagttatt att                     2203
```

```
<210> 5648
<211> 1100
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (977)...(59)
<223> similar to gi5524927 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 5648
tttttttttt ttggggcagc gggggtcttt attcgtcaga ttttccttct tgggctaatt    60
cccaagtttt ggcaagggaa agtcaataaa gtgttggtaa ttgcaaaggt ccagaatggc   120
aagcagaccc agtggggcca gcagcccttc cctggatagg gctccagggt ccttcactgg   180
aggaagatcc ttggtacccc tgctctctcc aaggctggga ctagtgttcc tggttgtggc   240
caggtgtgca gtggttgtga cagcagatgg tcttggcttg gtcctagcag aggctgtgac   300
cccatacatg ggcctgatgg tgccgaaagg cctggcgtga gcatccaccc accgcagcag   360
ggcctgtggt ctccactgac agatgctgag cagggccagg acatcaccct cagccgtgtg   420
cgagtctgga ggggactgcc catacaggcg agtgtagatg ctgcctaggc tgtagctctt   480
ccttgggccg tgttctgagg ggctgcttgc tcgctccagg gccttcagcg cagtgatgct   540
atccacacag aaggcaccat ccagagcact ggtgaggccc agcatagcca gctctgcttg   600
gagcaggggg aagtcgtagc ggtcaccatt gtgtgccacc aggcaccagg gctgtggctg   660
gcgccgcagg aaggctagga gcaggttggc caggttgtca tcaaaacatt gacgcccatg   720
cgctgccagc acagctgtgc tcagacctgt gatctcgctg gctgcagggc tgcaggcctt   780
ccccggagcc acacacaggg agagcttgtc taccacacgc ggtggtggag gaactgtggg   840
aggtggcccc tgagaggtgg gggggctctc cagggcacat ctgtggacag ccagcaggca   900
cagctccgtg accttgggct gggagaaggg caagccagtg gcctccatgt cgaaaaagat   960
gagggtctgc atgggccccg ggggcagggc ctgcgagccc atggttgggt acgtacctgc  1020
tgctgagccg tagcaggcag gcaggcaggc agtagtgact cggctgcacg ctctcccgcg  1080
gctctcgccg gacgcgtggg                                               1100
```

```
<210> 5649
<211> 1636
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (524)...(1397)
<223> similar to gi4091782 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5649
```
agggcctcgg ccatccaagg gtctcccagg tgaccttccc tccaccccag gaagctatga     60
cagaggccgg gaagctgccc ctaccgctac ccccacggct ggactggttt gtgcacaccc    120
agatgggcca gctggcccaa gacggggtcc ccgagtggtt ccatggtgca atctcaagag    180
aggatgctga gaacttgctg gagtcacagc cactggatc ctttctcatc agggtcagtc     240
acagccatgt gggctacaca ctctcctaca agtaaggcct gggccgggat ccaggcagg     300
ggcaggtggg ctcttgggtt tccttggagg gggcaagggg tgcttcatgt catagcttct    360
cagaaagcag cagtaactga ggctgtggat ctgagaacgg gagctgctag ccaagcaatg    420
agtgaagctt ttgtccgtag tggcatgttt tatctgaggc cagcctttgt actcctgtgt    480
tataaatggg ggaaactgag gcacagcgag gttagtaacc tgctgggtgt tgcatggcca    540
gtgagtgaag aagcctgcat gggaacctgg ggtagtctgg ctgtagcagt gacgctgccg    600
gcccaagggc tggggacttg gggcagggat gaggggagt aggatgtccc agcccccgca     660
gtgtctccgc agagcccaaa gcagctgctg ccatttcatg gtgaagctct tggatgatgg    720
gactttcatg atccccgggg agaaggtggc ccacacctcg ctggacgccc tggtcacctt    780
ccaccagcag aagccaattg agccgcgcag ggagctgctg acacagccct gcaggcagaa    840
ggatcccgca aacgtggatt acgaggatct cttcctctac tccaacgcag tggccgagga    900
agctgcctgc ccggtgtctg cccctgagga ggcctcccca aagccagtcc tgtgtcacca    960
atcaaaggaa aggaagccgt cagcagagat gaacagaata accaccaagg aagccacttc   1020
ctcctgcccc ccaaaatccc ctcttggaga gacccgccag aaactctgga ggagcctcaa   1080
aatgctcccc gagagaggcc agagggtccg gcagcagcta aaaagccacc tcgccactgt   1140
gaacttgtcg tcactcttgg atgtccggag atccacggtg atctcaggcc ctgggaccgg   1200
aaaaggcagc caagatcact caggggatcc cacctcgggg gacagaggct acacggatcc   1260
ctgtgtggcc acatctctca aaagcccctc acagccccag gcaccaaaag acagaaaggt   1320
ccccaccagg aaggccgaga ggtcggtcag ctgcattgag gtgaccccag gggacaggag   1380
ttggcaccaa atggtagtga gagccctatc ctcccaggag tccaagccag agcaccaggg   1440
cttggcagag cctgagaacg accagctccc ggaggagtac caacaaccgc cacccttgc    1500
ccctgggtac tgctagagaa caggtccacc ctggctctgg gactcgctgc caggggctgc   1560
cacactcctg aatgccttaa catttcttcc atggccccac accatggcat ccggggtct    1620
tccgggaacc cgggaa                                                    1636
```


<210> 5650
<211> 5221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5105)...(1520)
<223> similar to gi452755 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

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ttttgggcat ctaacaattg ttctttattt aaaaacactt tcaggaaaat ccaaggaaat      60
acagaagcaa ggcagcacca tagtcttccc agccaaggtg gaagtgcctc tggttcctcc     120
agcaattccc actggtgtta tcataactca acagtctgtt gcaatcagtt gtagaaaggc     180
acagagtgac agctggaatg caaagaaatg tgcacaaccc agagctctgt cagccttgcc     240
aaaactcaag tgcccccatg ggagggtctt gcaacatatg ttctgttgag caaagaggtt     300
gcaaaccaag cggttattgc aataaacacc acttgtgaca aacaaagttt gtaagtttaa     360
atttatttt taaaaatgct tgtcttcctc actagacaat caactctatg agggcagaga     420
ctatgtcacc actgtcccac cagcccctgg cacacagtag gtactcaata aatatatgtt     480
ggaaggatgg atggaggtaa tggatggaaa gatggatgga aggatgaatg gagggatgga     540
tgtgacccag ctgaagtgtg agtaggaaca ttctcttatt atgggtggag gaaagagaga     600
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4185

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<210> 5652
<211> 1669
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1643)...(1413)
<223> similar to gi288145 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

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agaaccgtcg tgcaccgtgt cctccgcgga tgtggactgg aacgcggagt tcagtgccac        180
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tgcccacctg cagaagcttg aggtcctgaa cgtgctacgc aacccttgt ctcgtgtgga       360
tggggcgctg gccgcccgct gtgaccttga cctgcaggcc gactgcaact gtgccctgga      420
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<210> 5653
<211> 1833
<212> DNA
<213> Homo sapiens

<220>
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      Run with FASTXY 3.3t00, default parameters

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cagggagacc ttttacttgg cacaagattt ctttgaccgg tatatggcga cacaagaaaa      600
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tcccctgact attgtgtcct ggctgaatgt atacatgcag gttgcatatc taaatgactt      840
acatgaagtg ctactgccgc agtatcccca gcaaatcttt atacagattg cagagctgtt      900
ggatctctgt gtcctggatg ttgactgcct tgaatttcct tatggtatac ttgctgcttc      960
ggccttgtat catttctcgt catctgaatt gatgcaaaag gtttcagggt atcagtggtg     1020
cgacatagag aactgtgtca agtggatggt tccatttgcc atggttataa gggagacggg     1080
gagctcaaaa ctgaagcact tcaggggcgt cgctgatgaa gatgcacaca acatacagac     1140
ccacagagac agcttggatt tgctggacaa agcccgagca aagaaagcca tgttgtctga     1200
acaaaatagg gcttctcctc tccccagtgg gctcctcacc ccgccacaga gcggtaagaa     1260
gcagagcagc gggccggaaa tggcgtgacc accccatcct tctccaccaa agacagttgc     1320
gcgcctgctc cacgttctct tctgtctgtt gcagcggagg cgtgcgtttg cttttacaga     1380
tatctgaatg gaagagtgtt tcttccacaa cagaagtatt tctgtggatg gcatcaaaca     1440
gggcaaagtg ttttttattg aatgcttata ggttttttttt aaataagtgg gtcaagtaca     1500
ccagccacct ccagacacca gtgcgtgctc ccgatgctgc tatggaaggt gctacttgac     1560
ctaaaggact cccacaacaa caaaagcttg aagctgtggg agggccacgg tggcgtcgtt     1620
cttccttcgc aggtgtttct ggggctccgt ttgttaccca agtgggagca ggtggtttgc     1680
ggggcaagcg ttgtgcagag cccatagcca gctgggcagg gggctgccct ctccacatta     1740
tcagttgaca gtgtacaatg cctttgatga actgtttttgt aagggctgct atatctatcc     1800
attttttaat aaagataata ctgtttttga gac                                   1833
```

<210> 5654
<211> 855
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (310)...(809)
<223> similar to gi3025832 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5654
```
tgactgcccg tagaggaaac gacattcgga gctgcgctcc cgcccaggcc ggccctgccg       60
cgggcctcgt cagccagtaa cagggagcag aggtgggagt tagcgaggcg accacgaaaa      120
cggtgaaggt cggaaccgac agcctcctcc gagaagggca ggagctggga ggaggcggca      180
gcggcggcgg cagaaacagc agcggcggcg gcggcggcag ctgggaggag gtggtgacgg      240
tggcaacggc agcgtcgggg acgatggcgc gactcgtggc agtgtgcagg gacggggagg      300
aggagttccc cttcgagagg aggcagattc ccctctacat agacgacacc ctgacgatgg      360
tgatggaatt tcctgataat gtgttaaatc tcgatggaca tcagaataat ggtgcacagc      420
taaagcagtt cattcagcga catggtatgc ttaagcaaca ggatctaagt attgccatgg      480
tggtgacatc acgcgaagtc ctgagtgcac tttctcagct tgtcccatgt gttggttgtc      540
gtcgcagggt ggagcgtctc ttttcccagc ttgtagagtc tggaaatcct gctcttgaac      600
ccctaacagt agggcccaag ggagtcctgt ctgtaactag aagctgcatg actgatgcaa      660
agaagcttta tacattattt tatgtacatg ggtccaaact aaatgacatg atagatgcta      720
ttccaaaaag taagaagaat aagagatgtc agttgcactc cttagatacg cacaagccaa      780
aacctttggg aggttgatgg atggatgtat gggaactaat gtcgcaggaa tgcagggatg      840
aagtagttat aattg                                                       855
```
```

<210> 5655
<211> 5663
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(5664)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (5501)...(2237)
<223> similar to gi33942 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 5655
```
tttttttttt ttgatgaaat agataattca ggttgtcatt tataatttta gagtttgctt   60
cacatataca atgctgtgtt acgaaacaat gaacactttt ataaaaaatt tatttcacac   120
ttttatacaa atatccacag gtaatttcta atcatgaaat aattttacaa tgctagttag   180
tacaaaaatg tatcaaatgc aaacagacca gtgacttgac ttgagatgac atttttaaca   240
accataaatc taaacaccat aacatctttg tttctttgtt gaaccaccct cccaacaccc   300
ttttcaggac attcatcttt tttttagtaa cacaggtcta aaaacactgt caaagtatca   360
gctccttagc aatctagcaa tctaaacaca ttagggacac aagttcccca agcaagaaac   420
tgagacttta aacactgtta taacctgttt tacagaaatt tttgtaaaca aaatatattt   480
tgtgactaag aattccaaag tacaaccaaa acaacgtcct tagtatttta aggtttaaga   540
tttccgaaaa gaaaaaagcc cccccaaaac aacagtggcc ctacaaactg tgttttattc   600
tttcaaaaca cagacactgc ttatactata tccaaaacaa attagcacct gtttgctgtt   660
gctccccata taacttaaca ttgtgaagca tggtaattaa aaaaaatcag cttttcatatc   720
tattcagtct ctgttgaatg tatagagtaa tcattccacc ccctgccatt tttacaatta   780
aaacacaatt taaagttctt gttaaattag ccccaaagta atttttggga atacagatag   840
gggaggaaac aaaacaaaaa atagaacatc gactcactga ttaactgttt tggtagcaga   900
ttcagtagtc ttatactgga tcagtttgga tccaccatag gcattcacca tttctttcaa   960
gtcctgaata tacagtattt gcagcagtga gtaaaccgca ctagagttca gtgaataaac   1020
ccattttctc caagaattcc tgaatgttac agtatgaaat ccagaaacat tatgcaggct   1080
tctaaagtaa aaaatatcca atgcctgaaa taaacatctt tacagttata attctatttc   1140
ttaaaccttt tgggttgtgg ggtggaggct gtcatgaagg agaggttata gtttatagat   1200
aagttattaa aacaactctc tctggtacat ttataaagat tttctttttg cagtaaataa   1260
tttaggtcaa agtgatgacc tcccatgctc taattctaat tctgattgat taaacccaac   1320
ctgaagggta aactggagac tctttggcct gttagtcaat aacaaatgg tttgtaaaga   1380
aaagaaaaaa taaataccat atacaaataa gtataactag cattcaagtc tgttgcacct   1440
gtgtgttttt agtgaaaggg agaatgaaac ttgtatgcat ttgacgtgag caggtattca   1500
cacagctagg aaacaggaaa agacggtagg atggcaacat caccttctat tgcaacattt   1560
agtttaaaag acagccactt tccgttgaaa acacaactac cccaaatggc atagtcttgt   1620
gatgtgggac agctaacgtg atggacgtct gcgcagcagg cccgaggtta ggacggccac   1680
tctgttagtg caggtgagtg taggtgcctc ctcagctaca ctatctggag gatgtcacct   1740
gagtgcaact gggcaggccc ttccccaaca catgatgtaa gtcagccacg ccaaaaacaa   1800
aggcaaccca gaaagttaaa ttacggcagt aaagaaaaa tccattccaa cagttttaaa   1860
tttggctgtg caaaacagga gccttaggct acgtaacaat atccacagtt aaaactgtag   1920
gttcgtactg tgtgtagtca ctctgaaatc agtcctcagg gattgagcag gcttttaaat   1980
ccaaattgaa tttctgagtt ggaaaaagca gtttgggtac tgtgaagctt ttttttttttt   2040
aggcccccgc tatgagtagc tttcatttttc gttccacttt gtgatccact gtttttttttc   2100
```

```
aaggttatca atatactttt aatttttgat ctctcgctct tctttccgga tccttacagc   2160
atggtatcgg ggaacactgt catcgtacct agagcgttta aagaatccac acaattacag   2220
aagtagatca atactatgca tcagaagtaa gcctctcttt atcagatggc tgagcatgga   2280
tctcagcctt gtgatatgtg gcatcataat gatctttctt atttctcttg aagaaaccac   2340
acttccatag tataaacact aataaagcaa gcatcaagat cccagcgaga atagccacta   2400
ggatgatcca ccaaggtact cccgaatact gagctacagt ctttgaggga aacacagtca   2460
ctcgaacctg agtgcctgca tttggcagcc tgatattttc ggcagcagca gtcacatcaa   2520
tgaaggctcg catgagaatg tccaagtagt tcagtttgga atattcctct agaaatgtgc   2580
tgttccataa cctcgagcgc aaaataagag acgccttgct gtccagcccc cgcagcgggc   2640
atctgatgtt cacacagttc acgttcacgc tacagttaag agtctggtat tttctttcag   2700
caaataaaga aaattttctg ttatcatcta tctgtttttc agtaatttcc cgtttctttc   2760
ttgagttgtg agactccgtt aggttcaggg agtttatctc cttttgtggc tcacaagtta   2820
ccttttccaa tcctttggat tctactttca ccaaaataaa gcaaccaatt tccaattgct   2880
aatttctttt ggccactgaa tgttcaaggt tgctgtgccg aggtttgtaa gaggtttacc   2940
taagtttatt accctgaatt catactctat taaacttccc acttcatctt cagatttcat   3000
agcttgctcg ccaacaactg tacctccaaa atacacctgg gaaggtttag caactcccga   3060
gaccgataaa agcagttcaa taaccacttt tgctttagct gtaattggag ccaaattatc   3120
ttgattgctt gttgtttcta acttcagatt aatatccaga tctggggtgt caaaggtgac   3180
ttcagttgta cttaaaacca aataaaaagt gacatttgaa tttctttaa aaggatttcc   3240
gagctcacag tcagcttgcg agccattctg gttggcaaca caactcaact gtttctcagg   3300
gaaagccctc agttctctat atgcagaata ggttaaagtg tctggaaacg ttgcaatcag   3360
tttagcctca tgggcatcat cgccatcttt tgtgggattc cttgggttgg aagggctgtt   3420
tgtcactgtt atttctaaag caatatcctt ctgatctttt agaactagtt ctggtacacc   3480
tttttgaatt ggtaaataag aaaatttgtc ttgatttcct tctcggggtg caaaaattta   3540
tattctagtt taagggttgc tgttacatac aatntgtcgt ctcccacatc ccttctttta   3600
agaagtgaac atcaatatga gctgtcttgg gttcatctga attcagaatt ggaagaactt   3660
ctggaagtga attcactcgc ctacgagagc ttggctcttg gatctccact gagggcagtt   3720
atgggaatgg gacgcagttt atctctgata ttatcctgta gccacagggt ttcctccatg   3780
cacactttct gtttctgcct cttcagagtt agttcttgag tatatttggg ctcagaacct   3840
tggtttcgaa actgaactct tgaggatagc ccagattttc ttctttcttt ttcagcttca   3900
agtgtgccca caattgatat tgaaggatta taaccagcgg ggttagcagt atattcaaaa   3960
caggatttaa cctggaggca tatcccacta ggcgccccac acgctgtttt ctggcggagg   4020
tcaattctgt taggagttac tgtgatggtt ttctgaatat taatcacagg ccgggatctg   4080
aaaatagtta ctgaatctga gagggaacca acagcaacat caggtagga atttcgatca   4140
aggtccatgt ttccagcaat tgaatatcca aaataaggtg atataccctt gagaacctgt   4200
gttggtttgg tatttattcc atttgcagat ccatgataga taaaaacctt tcccaagtca   4260
tcatacggag ctccaactgc aatatctggg tagccatctt gattaatatc tccaatattt   4320
tttactgcaa tgccaaacat agagtccttg ggttccatta agagcgaatt ggcttacat   4380
tattccatct gccttgctgg ttcatgtaga catacactgc acctccaact tctccatctc   4440
tatcaaaata ctgtggggct ccaataacta tatcttgcca cccatccttg ttgaggtcca   4500
ccaccgccac atcatagcca aatgaagagg ccagaccttc tccatcgaat atgtgctcag   4560
ggaggagatg tgcagacttc atgtctctct tcagcaaaac cacggctcca ctgtgattgg   4620
ctctgggagc accagataca aaagtgatct catctttaga aacaatacct ttccctgagt   4680
ccaaagaaaa acctaagtaa ctgttagcag gaacaggaac gagactttca tcatgctcag   4740
tctctccacc aacttcataa ggcccatctt caaagatgtt catgtcaaaa aaagtgttat   4800
tcttttgctc tacacgaaca atcccttttcc agttattaag taccccgggg cttccaaata   4860
caatgttaat ggaaagtctt taggtaaaag taggctggct acaccttgct ggggcaaggg   4920
ccaaatttct catggcctct caatcgccca tcacaaaagc tccaatctcc cccatccata   4980
tcgttcttca atcctgagat tctgactcag gacataacac cgccccaaag atgtctcggg   5040
aatccctgct tcgtattaac aatgctgccc ttttttttaaa atatcggtta aacaaaatgt   5100
aaacgacctt gcccccctg aaccttggcc tctggaacgg ttgaccccccc cacccactga   5160
tcttcccttg cctttcctga cgtgggggtt cagcatcgtt atcaaactcg atccgccgtg   5220
catggccccc gggcggtgga tgtcgcagct tgtacagccc tcccgttctg ttgggctctc   5280
tgcagtggga agcgcttctg cccgcggggc ccccacggag caacagccgc ttgtcctcgg   5340
gctgcagttt gccagtgcat gggccagcga gaaagccgaa gaggttcccc ggggtctcca   5400
tattttccgg atcacgttgt cctcccgagt gttccaagtt gaaagctgac gcccgagccg   5460
ggacaggagc cccgccgaca ggtagagcaa gcacaggctg cccggcggcg gccatgggcg   5520
```

4191

```
gacgcacggg gaggggagcc ggggaccctg cagcggccgc cctgcgctcc gggctgggtc       5580
cgaggctgcc gcgctgctgc taccgcagcc accttcgcct cctctcgccg ctgcgcccgg       5640
ccccacccccc gggacggtcg cgc                                              5663
```

<210> 5656
<211> 610
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (8)...(529)
<223> similar to gi498734 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5656
```
cggaggaaag cctttttgagt tcaaagaagt gtgtgaaagc cttgagcatt cgaaaaagcc        60
tcattagacg gttctacatc cacactggag agaagcccta tgagtgttga cagtgtggaa       120
agggtttttac ccgcatgtca gggctcacaa ggccccagtg gattcatact ggagagaaac      180
cgtatgtatg cgtccaatgt gggaaagcct tttgtcggac cgcaagcctg attcgacact       240
ttagcatcca cactggagag aagccctatg aatgcgtgga gtgcgggaag gccttcaacc       300
gcaggtcacc cctcacaagg caccagcgga ttcacactgc agagaagtcc cacgaaccca       360
tccagagtgg gaacgtttct tgtgagagca cagatctcat tcaacactcc atcatccaca       420
ctgagagtag cccagtgagt gcagtgaata tggaaacgcc ttcaattgcc gctcattcct       480
cctcactcga catcaacgga ttcatagtgg aagaaaccct accaagcaca gcagatgtgg       540
aaaggaagga ataaaaatgc ccaagaccaa acgaagaag aaacacttta ttttcattgc        600
aaaaaaaaaa                                                              610
```

<210> 5657
<211> 1107
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1095)...(644)
<223> similar to gi3668416 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5657
```
tttttttttt ttgatggcta cttataattt atttataaaa cattttacca gtgagtgatg        60
tctcaagtga gaggtggtaa cagatacaca aagcagttta tagcatgcaa tatttcaatg       120
cctctgagag gtagaaacag cttgtgctct cagatggccc tcagtccttc cccttgtcat       180
```

```
ctttctgtcc tagactgtgt cctaactgct cacaagggtt cagcggcatg caaacagtct        240
ttaattggtt ttcttcaaag agggcattgt tgactgggaa agactgggct tgtatttaaa        300
ctctggctct ttttgcaaat gacagacttt ctcaacagta tttccagagg aaaattttgg        360
ttccggaaca gttaactgga atctgaccag attacagaca gcaccacccc atattactcc        420
aatggctaag acacagcatc tttgattttc tgtatgtcat aacattctga agcttgagtt        480
accgatggag ccattttttgc aactacacat cctccttata gttcttgctt tcctttcaag        540
cagatcacag ggcccagggc aagatgattt ccttgaggag aagtagcctg agccttagaa        600
atgcaatttg tataactgac cagcctggct ttccccctcc tttaggaatc tgattcttct        660
tcctcttcct cctcctcctc ttccgtcaca tgactctttg tgctcagctc cagggttgtt        720
tggttgattg atgcttcatt gtctacatgc accaacatat catgtgactg ttcaggtaca        780
gtgtgagaag acagcatctc atccctctt ctagaactga tcattgattg gagggctaat        840
tcttcaacct gtttgtttgt aaacctctaa attggcgcca ccacagctag tgagtagcgg        900
agaactggcc gcagcaggtg gtcaccacag aggcccaggt tggggggaaa tggtcgctcg        960
ggaggaatgg aggaggggca ggagagggcc gcgggtcac cttgaggcgg ttcagctggt       1020
cgtgcagggc tgccttcaac cgcagcagcg tctcctcctc cttgcgcagt tcctgaagcc       1080
ggctcagcat gttgcctggt cacatag                                          1107
```

```
gcacgagtaa ggacagaaaa gtgaaatgca gtatggtgaa gaggataccc tgaatatgta         60
tgaagacatg ctgttgtgag acggagttgt gaaacagagg ccacagaagc tgttgtgaag        120
gcagagcagc atctgctgaa gagacagaaa ccagccccag aggtgtcaca ggaaggcacc        180
agcaaggaca ttggtctttg atttgattca gcagtcctgt caagtataaa tgtgatggct        240
gtgctgcctg gccctctgca gctgctggga gtgctgctta ccatttccct gagttccatc        300
aggctcattc aggctggtgc ctactatggg atcaagccgc tgccacctca aattcctcct        360
cagatgccac cacaaattcc acaataccag cccctgggtc agcaagtacc tcacatgcct        420
ttggccaaag atggccttgc catgggcaag gagatgcccc acttgcagta tggcaaagag        480
tatccacacc taccccaata tatgaaggaa attcaaccgg cgccaagaat gggcaaggaa        540
gccgttccca agaaaggcaa agaaatacca ttagccagtt tacgagggga caaggtccc         600
cgtggagagc ctggcccaag aggaccacct gggccccctg gtttaccagg tcatgggata        660
cctggaatta aaggaaaacc agggccacag ggatatccag gagttggaaa gccaggtatg        720
cctggaatgc caggaagcc aggagccatg ggcatgcctg ggcaaaagg agaaattgga        780
cagaaagggg aaattgggcc tatggggatc ccatgaccac aaggacctcc agggcctcat        840
ggacttcctg gcattgggaa gccaggtggg ccaggggtac cagggcaacc aggaccaaag        900
ggtgatcgag gacccaaagg actaccagga cctcaaggcc ttcggggtcc taaaggagac        960
aagggcttcg ggatgccagg tgcgccaggt gtaaaggggc ctccagggat gcacggccct       1020
cccggccctg ttggactgcc aggagtgggc aaaccaggag tgacaggctt ccctgggccc       1080
ccagggcccc ctggggaaag ccaggggctc caggagaacc tgggccacaa ggccctattg       1140
gggtaccggg ggttcaagga cctcctggga tacccggaat tggaaagcca ggccaggatg       1200
gggatcccag gccagccagg atttccaggt ggcaaagggg agcaaggact gccagggcta       1260
```

```
ccaggacccc caggccttcc agggattggg aaaccaggct tcccaggacc caaaggtgac    1320
cggggcatgg gaggtgttcc tggggctctt ggaccaagag gggagaaagg accaataggt    1380
gccccaggaa tagggggtcc tccaggagag ccaggcctgc ctggaatccc aggtcctatg    1440
ggccctccag gtgctattgg ttttcctgga cccaaaggag aaggtgggat tgtagggcca    1500
caggggccac caggtcccaa gggtgagcca gggcttcaag gcttcccagg aaagccaggt    1560
ttccttggtg aagtagggcc tcctggcatg aggggtttcc caggtcccat aggccccaag    1620
ggggaacatg ggcaaaaagg tgtaccagga ctccctggtg ttccagggct tctcggacct    1680
aagggagaac caggaatccc aggggatcag ggtttacagg gccccccagg tatcccaggg    1740
attggggggcc ctagtggccc cattggacca cctgggattc caggccccaa aggggagcct    1800
ggcctcccag ggccccctgg gttccctggt atagggaaac ccggagtggc aggacttcat    1860
ggcccccccag ggaagcctgg tgcccttggt cctcaaggcc agcctggcct tccaggaccc    1920
ccaggccctc caggacctcc aggacccccca gctgtgatgc cccctacacc accaccccag    1980
ggagagtatc tgccagatat ggggctggga attgatggcg tgaaacccccc ccatgcctac    2040
ggggctaaga aaggcaagaa tggagggcca gcctatgaga tgcctgcatt taccgccgag    2100
ctaaccgcac ctttcccacc ggtggggggcc ccagtgaagt ttaacaaact gctgtataac    2160
ggcagacaga actacaaccc gcagacaggc atcttcacct gtgaggtccc tggtgtctac    2220
tactttgcat accacgttca ctgcaagggg ggcaacgtgt gggttgctct attcaagaac    2280
aacgagcccg tgatgtacac gtacgacgag tacaaaaagg gcttcctgga ccaggcatct    2340
gggagtgcag tgctgctgct caggcccgga gaccgggtgt tcctccagat gcccctcagaa    2400
caggctgcag gactgtatgc cgggcagtat gtccactcct ccttttcagg atatttattg    2460
tatcccatgt aaaaacaaaa aaacaaaaaa caaagaaaag aaagagattt tatagaagaa    2520
aatgacacac caaaaaatcc aaatgaaaaa cataattgct tcaaaacact tacacagttg    2580
gaaagttata tgtaagtgaa aatttggacc attgtgtaca aataaaaact aagatgcatg    2640
tttaatactc cacacagcag cctgtaattg cgaatgatgg gatagagtta tgtatcaagt    2700
actgacactt ggttgtaccc actggaatca tattagctgt tttatgttat atgcttccac    2760
agtaacctgc ttattcagat cagtcaaaat atatcagtat gaaagatcat agctaatgaa    2820
aggcactcac tcatattgtt tactttaaaa tatttataaa tatgccttaa agaaatacaa    2880
atgataacaa ttacataccg tatttacttg cttaatttcc tctgtatttg tgtagatact    2940
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tggggaccct ggtaatgctt tagtcaaagg gatatctctc ttgtatcaga ggctgtgtct    3060
tttagtaaca ggagtcctcg tcagaattgc gtgtctgttg tctctaaaag aatgggtgaa    3120
ccaatcggcc tttgtgaatt tattcagtgc cttctctgta ccaagcactg ggtaaggcac    3180
ttttgtggag cattagacag taaccctcaa ggagctagag aaccggatgg gagacatgag    3240
cggtaattaa ctcacttgtt ccccagagtt tctatttgtt ttgattttct ttttctgtga    3300
cttatttttcc tattttcttt cctccatgta attttcacta tggcccaact aatataaaca    3360
cctggaaatt acaaggaaaa aaaattcttc ctctaataac tttccaaatt tgtggaatat    3420
ttatttggaa tagcaggtat cag                                             3443
```

<210> 5659
<211> 2091
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (365)...(1924)
<223> similar to gi4335949 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5659

```
cggacgcgtg gggccaatgt tggagccgtc tgcaaagtgt ccccggcaag aagaggctgc      60
ctaccacaag gactttagct tactttttaa agattgaaga aaaaaaaga agacagaaaa     120
agaagaactc aaagatacac aaagtaattt gaaccaaggc tcaaaagttt ttggagccgt     180
gagggataca gcagtttggt caatattgtc ttaacatgct tcaaataaat cagcttctct     240
ccaagataaa atggcaaacc caaaagagaa aactgcaatg tgtctggtaa atgagttagc     300
ccgtttcaat agagtccaac cccagtataa acttctgaat gaaagagggc ctgctcattc     360
aaagatgttc tcagtgcaac tgagtcttgg tgagcagaca tgggaatccg aaggcagcag     420
tataaagaag gctcaacagg ctgtcggtaa taaagctttg actgaatcta cgcttcccaa     480
acctatttag aagccaccca aaagtaatgt taacaataac ccaggctgta taacaccaac     540
tgtggaactg aatgggcttg ctatgaaaag gggcagagcc tgccatccac aggccattag     600
atccaaagcc attcccaaat aatagagcta attacaactt tcaagtcatg tataatcaga     660
ggtatcattg cccaatacct aagatctttt atgttcagct cactgtagga aataatgaat     720
tttttgggga aggaaagact cgacaagctg ctagacacaa tgctgcaatg aaagccctcc     780
aagcactgca gaatgaacct attccagaaa gatctcctca gaatggtgaa tcaggaaagg     840
atatggatga tgacaaagat gcaaataagt ctgagatcag cttagtgttt gaaattgctc     900
tgaagcgaaa tatgcctgtc agttttgagg ttattaaaga aagtggacca ccacatatga     960
aaagctttgt tactcgagtg tcagtaggag agttctctgc agaaggagaa ggaaatagca    1020
aaaaactctc caagaagcgc gctgcgacca ccgtcttaca ggagcttaaa aaacttccac    1080
ctcttcctgt ggtggaaaag ccaaaactat tttttaaaa aacgccctaa aacaatagta    1140
aaggccggac cagaatatgg ccaagggatg aaccctatta gccgcctggc gcaaattcaa    1200
caggccaaaa aggaaaagga gccggattat gtttttgcttt cagaaagagg aatgcctcga    1260
cgtcgagaat ttgtgatgca ggtgaaggta ggcaatgaag ttgctacagg aacaggacct    1320
aataaaaaga tagccaaaaa aaatgctgca gaagcaatgc tgttacaact tggttataaa    1380
gcatccacta atcttcagga tcaacttgag aagacagggg aaaacaaagg atggagtggt    1440
ccaaagcctg ggtttcctga accaacaaat aatactccaa aaggaattct tcatttgtct    1500
cctgatgttt atcaagagat ggaagccagc cgccacaaag taatctctgg cactactcta    1560
ggctatttgt cacccaaaga tatgaaccaa ccttcaagct ctttcttcag tatatctccc    1620
acatcgaata gttcagctac aattgccagg gaactcctta tgaatggaac atcttctaca    1680
gctgaagcca taggtttaaa aggaagttct cctactcccc cttgttctcc agtacaacct    1740
tcaaaacaac tggaatattt agcaaggatt caaggctttc aggttcacta ctgtgataga    1800
caaagtggca aagagtgtgt gacctgtctg acattagccc ctgtgcagat gactttccat    1860
gctattggaa gctccattga agccagccat gatcaggtat aatatgccac tgccattttg    1920
ctgtgttatg gcccagctcg gaaatggaag gccatcaaaa tggaagctat gtgcgcacat    1980
gcagctttgc tttccttaat acattatctg ctagcaccat ctgctagact tgaaaaatca    2040
aaattgtttg cgttgggaaa ttgatatcat agtagattta aattatttta a            2091
```


<210> 5660
<211> 3880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3774)...(1514)
<223> similar to gi605 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5660
```
ttagaaggat aggggaagag attaagtaat tgcagtttaa catgaaaaat gcacatgtga      60
tagaatggag cacaatggag gattcataaa acatgctcat cagaaaaatc tgttaagtcg     120
```

```
actttgtcca gattcagaaa gagtaagttt atcaacatct ggcatccctc atactttgtg    180
aagatagatc ttctactgct taattatgag aaattatttt attcaaagaa aggagctctt    240
aatcttttga taaaacaaaa taaaggagta gagagctgac tagatgtcaa gtgcttgcta    300
gaaatgattt ttaaaatgct tctacacgta aaatgtactg acaaattttg gtaaaccatt    360
taaaaataag aattagtttt aaaatcttgg agaaaatgcc tttttgccca catttaaaac    420
tgaaaatcaa ttttactata gataggagtt ctgtggagtg tacaaaattc cttttagaga    480
tcaaatggcc atcccagata gatatcatgt ttcacaggca ttactttag tcaccctcaa    540
gtttcagcca tgggaccaaa atttagtgtt ctgtgccatg tggtcacagg gtcattggtt    600
tcacatcatg gcttaagaaa atactggcat tttgtttctt acgaagtaag tcctaccttg    660
tgcatccaag caaaaagaaa aaggaagaaa acagggagg gaaaggcgca agaagctttt    720
tttgtttgtt tgttttgaag acaacagatt gaaggcaaaa aaacacagag ctttcacaag    780
ctcaaagaaa aatatttgct ggctgatcgc tgatttgtat gcactataaa acaattccat    840
aaataaaacc aatatatcat ttcttaatca tgaccctatc aaaaccaagt tatttcctaa    900
ctattctttc aatgtcaaat gtaccctaga gttgacgttt catttttaag ggttacagct    960
acctcatagg aactgaacta gatgtactct tacccttct ctgaagtata acagtacacc   1020
actgcacaac agtatccaat ttgaagacta atggtaaaga aaattcttca ggaaaaactg   1080
aaaatccatc aagctgaaaa tctaaaatta gttctacttt ctaatgaaaa atacataaaa   1140
gtgcatcatc agaataagta attcttatgc cagtttgtat tgcaaatttt ccaaacaatg   1200
catcaaacat aaacccaatc cagatgtcaa ttatgaatac aaatatagct tgaggttgtt   1260
ttttttaaag gcagtaattt ttgaaatagt taatgcaact gttgctaaca caataataat   1320
agtactcctg gcttcacata ctaacctgga cttccgatca agtgctgatt agcccagtaa   1380
gggaggtcac caaaaaaccc aaatccattt cagtcatgtc tagtcttgta ccctccattc   1440
tccttttta gcatttgaag acaacaggtt gagttggcag atattgttta tggacccctg   1500
aggttgtttt taccgattca atctcagttt tattgaattc ttgataacag gaataggatt   1560
tgcagggaga gcagggatat cagaaaggtc tgtactggat gttttctgag aggccaacag   1620
agaagccgct gtctgaatag tttctgattg agttgtactt gtctctgtat caagttgttc   1680
ctttgcttct gtttatcat gtccactcaa agcaagacag ttagcatctt cacttgtttc   1740
atcctcttct gtttttggtt tcttgggact ctcttcttta tgaggtgagg atgtcctctt   1800
gactcctact ataggagtag gtatttttgt tgctgcattt cctgaagttg ctgcatttcc   1860
tgaagatcta ggtggtgggt ttaccagacg tgttgaagaa acaactctgg agaccgtagg   1920
ctttggtggt ggagaaatgg ctggttgtgt ggcagtttga ggaatgcttt cactcgatgt   1980
accccctgag ctttcactgg aatttacttg tggcacagaa acttcagtag cctgtatgtt   2040
ggtcacagat gctgctgtta cagctggagc aggactgttt ctgccctgag agctgccaga   2100
actgttcaat ggactggtct tcgtagcact agtaggtgaa ggcacagaca tgctgttatc   2160
actgtccata gacaagtcga ggctgctgtc attgagagct gtcaatttga caccttctgt   2220
tgaatgcttt ttctttttct gaagcacatg attaggtagt agttgatgga gttgctttct   2280
ttttacatgc attgcagcaa ttttcatatc cacctcaaac atcttgctgt ttattgcttg   2340
cctataaact gtatctgtga aagactgaat atcataggtg agatcaacac tgaggttttc   2400
agagtttttct gtttttttaa acactaaccc aatcacccac atcgtgcgaa attcttcctt   2460
gtcgggattt tctttgggtg ctggaaatga ctggggattc acatgagcca gtgtaataaa   2520
ttcattcttc tccaagcttc caaccaggat tcggattttt gattccacca agcccaccca   2580
ttccaggcgt tgattttctg ttggtgcact tgctagaagt acaatataat gcttgtactt   2640
ttgaaagaag tttggagctt caaaaagttt ggaccactct gccttactca gcaaaatttc   2700
atctgtgata gcaagacctt gtttaaactc ctcaaccatg accatccgtg ttgaaacgga   2760
cacattgtac gtggagttct gttgtgggta tgctggtgta attataggca taagatggta   2820
cctatcactg gggtttaccc ttgggtccca tacaggcaaa ttaagattgc attcttcagg   2880
ctgtttcaat agcactggat ttggccattc ccatttagaa aataccaaga aaaatttatg   2940
tacaagagtt gatgctattg catttggata aagctggcaa gttcttgcta ctagcatagc   3000
ccaggaaaca ccaccgagga aacctaatat attggaatag atgttgtggc gtttggccca   3060
tagtttgata gctctcagag ttaacctgaa gttgtcaatg tttggtacta gatgtaaaat   3120
ttcatcggtt accctgcaac cgttaagact tcttatacat cttatatcta aatttttag   3180
cagactgtca tctcgtagat ccaaatcttc aggaattgtc tgcagtgcta atcttgcaaa   3240
caaaatatca atctctatcc catcaaaaca gagtttaata actggtacga atgcctcttc   3300
aacagctctt aaatctttta cttcttcctg taatttcaac ttatcataga atgaaggtga   3360
aaaagtcact tcgatcaaca tgtcttggtg caaacacaca aacgccatca atatcagcac   3420
cttttgtatg cacttcccta atctgtaaga tcccaaaatg taaaaatttt tcctccaaac   3480
attttccaat tacagattgt ggaagattct tggcttttca ctgatttctt cgtatccact   3540
```

```
cttttaccag gtttatttag tttttcccaa aattaaaatt cctgcggctg gcagttccct    3600
cttccttctt caaaaacccc ccaaagggtt tcaatgtctc caattagttt tctgtgtaag    3660
tacgcagtca gtctccttgg gggctgctaa gctgatagga gaagtaatgc catagtgctt    3720
ctgtggcggt tgtgtttgtt gtgatccctg tgttgtaact ggaaacggca tcgtctccgg    3780
cgccgcaccg cccagtcact tccccccgc aatcgccgcc tgccgccctg gtatgatcca    3840
ctgaggcggg agggaggggg gggcctgcct cagcctcgtc                          3880
```


```
<210> 5661
<211> 2379
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2011)...(395)
<223> similar to gi4808552 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 5661
tttttttttt ttaggaggaa atcttgtcat ttatgaaaac atgggtgaac ccggtgcaca     60
ttatgctgag tgaaataagc caggcacaga aagacaaaca ctgcatgatc tcacttacat    120
gtggaaccta taaaagctgc ccttatacaa gtaaagagtc aaatgctggt taccatgggc    180
tgggaggaga gggactgggc agatgtgtca aagaatacaa aatttcagtt aggaggcata    240
agttcaggga tcttgtacag catggtgact atagttaaca acaacgtatt gtattcttga    300
aaaaaaggag tgatataggg gtaccagaga tgggcaggat gattgaagat cacagtccag    360
ccttgcagga ccccggggga cagggcgggc actcagaggt ggacctccag caggtagcgc    420
aggcgacact ggctctcctg gtagatgagg tactcgctct gggagaatgt ggagctgctg    480
aactctgggc agggcacagg ctggccctgg ggcaccacca cttgctggcc atccagctcc    540
aactcagtgt cctgggtcgg atcaggctcg gtgtggcctc gggcaatgac actgtcgaag    600
ccaggaggtg ggctcttcaa gctggggttg tccgtgttga tatggtgctc tctgcccagg    660
gccacctcac ccaggaacat gtagccgaca tggtgggccc cacacttcat gccaataaca    720
tatccagctg acttgctgtt ctctgaggca aagtagatgc ccttgccaac acgcccacca    780
gaatgtggca tgatgcggag cccactagtg aggatggcgg ccaccacggc catgttggtg    840
ccatgccaca gcagcttccg attacccagt ttggagtggg cctggaatct gtcttcctcc    900
ccttcttggt ttactttcca gatgtgttga agtgtagggc acctgtggtt gctgccagtc    960
tgttctaagt aggtctgtat caccttgtac tcaggtgctc cagagtctag cagctgcagc   1020
tggcacttga gaagctggta gtctcggtcc agggggtgtg gcacctcctc caccgtcttc   1080
tcctgctcag agactgcctg cagggcctgg gccagctcga tgtccgccag caccagcagc   1140
atgtccttct tggcctgcag aagctcaggg gaattgatgg gcgggggctg gctgtggccg   1200
aagttgtgcg ggatgacggt gtaaaagtgt gaggacagct cctccaggct ttggccacca   1260
tccgtggggc ctttcagggc ctcctccagc gcctccaagg cctcgaaacc ccgtgcaatc   1320
tgttgcttgc tcagctttcc cagggggcatc ttcttcacat ccaggtccat gagggccatg   1380
gtgttcttga acatctcctt gctgaagatg ttagtgatga gcttctgcgt ggctgggtcc   1440
agggagcagg gctgcacccg cttagtcaca gtcctcactg ggcctctgtc caccttcacc   1500
acagcttcct gggcctcatc ctctgcctgt acttcgataa gtgtgtactt gcccgggtga   1560
gacacaaagt ggtcccgctc tgcccagttg ttcttggtct tttcccgaaa tttcttctca   1620
aagtccttct ttgcatcttc tagccttgtg aagtggttga tctttgactg gccgacctct   1680
cccacacggc cccagcggtt ccagcaggtg aagaagcggt tgctgtcttg gagcagctgg   1740
atgatgtaga acttgttgtt gttgttctcg aatgttggtc ttggttcagg gtgcaagttg   1800
tagtcctcat acacctgggt cccggggggtt tgcttgcttg agtggacatg ttggaatcca   1860
```


                                       4197

```
cgcggattat gcgctttctt ctgcggggta atggcctttg agggcctcag cgggtggagc   1920
ggaaggggtc cttccttccc ttcctgcctg ccggcccttc ttcttctcag ggccctcagt   1980
ctgtacccag ggcttcggct ttggagccat ggccaagaaa agcagggaca tgggagaggt   2040
cctggctgcc acccggcctg gttgtgtgcg cctcccaggg cagtcccagg tctagcaact   2100
ctccatgagc ctcaggcgtg aattagggag agaattccca acaatcgcca gaggccgggg   2160
atgagcttgt gtgggggatt agacatcggc tatttggcca ccagtggggt gaagcagagg   2220
ctggggcagg ccgagtcagg cgaccagtcc cacggacggg tggacactcg atctggcata   2280
tccaaggccg gggcagtcgc gtccgtagcg ctgctcatgt ggccggggcc tgcagcacgc   2340
atcagccggt cgcgcggtga ccttgggccc ggaacgaaa                          2379
```

<210> 5662
<211> 2113
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (508)...(276)
<223> similar to gi1177607 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5662
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tttttttttt ttgagacaga gtcttattct gtcacccagg ctggagtgca atggcgtgat     60
cttggcttac tgcaacctcc gcctcccagg ttcaagcaat tctcgttgtc tcagcctccc    120
aggtcgctgg gactacaggc atgagccacc acacccagct aatttttttgt attttttagta   180
gagacggggt ttcgccgtgt tgaccaggct ggtctcgaac ttctgacctc aggtgatcca    240
cccacctcgg cctcccaaag tgctgggatt acaggggtga gccactgcat gcggctgaag    300
gtaaggattc taaactcgga gactagaaat gtcctaaagg tgtctgcaac attggatgag    360
gagtacaagt gcattttttct gggatgattc ctccctttttt atcacattct cagaagtatc   420
tttgattcag aagagttagg aatgcctccc tatttcagtt gggttttctg ccctttctcc    480
acagaggtcc agactcattt tgcttaattt tttttctagc tggggcctgg gaggtagagg    540
cttcagggcc tgggtggtag agctgcctga caagtgttca gcagggctgc tgggtcaggg    600
ccctgtgggc cttctgaccc aacctgaaga tgggtctgct aagtctaaca aggtcaaggg    660
aagatcagag ggacccagat tcttttttat ccccccacttg aaacggagtc ttgctctgtc    720
gcccaggctg gagcgcagtg gtgcaatctt ggctcactgc aacctccgcc tccctgaccc    780
tcacactgtc cagtgccctt gtggttactc agcatcatat cttgagactg gcctggcagg    840
agccagtgac tgtggaatga ccacagaaga ttcagggcag ctgccagacc aggggctatc    900
tctgccctgc gctgcttctg ctcaagagag gttgtcacta gcctctgatc ttcccttgaa    960
gaacccgact ggggctcttc agagggtggg gcccaggaag ttgtagttaa ccccttcccc   1020
aggcagtcct tacacggcca tctaggtatg cctgggaacc ttgcaccagg tcggtggttc   1080
tcactggctg cccattggaa ttatctgggg agccttctgg aaacgcagtg cttacattcc   1140
atctccctag accaacagaa actgccctct ggaggtgaat cccaggctta gagattctga   1200
tgattctgcg gtccagtgag tgctgagatc tgtcctgagc tctgtgggga ggggcctgga   1260
ctgatcactg cttggaaatg attttgccct acagtaggcc ttcaagttga tcaaatgcat   1320
gaatgagcaa gctttttcttg gagtttgtga tgaagcccag gaaccgggtg cttgcagtcg   1380
tcccataagg ctcccaggga caagctagag aatctggctg tccctctgtc tccatggtgc   1440
cagccctctt aggctcagtt caaagggaga ggaggctagt taaataagaa actgagagaa   1500
acatggagca ttattgattt attagaaaaa ctagtaaatg ggtttcctct ggttggtgga   1560
agcacggttg agcaggtgga ggacaggacc cagctggccc cagggccagc cccagattgc   1620
atggtctgtg cccaacaggg ttgcattcct ctgcagccgc cgcctcctca tttcctccct   1680
```
```
                                       4198
```

```
gagcttgttt gtccaagcca ccaagccatg tggtcccgct ggcttcatcc tcctctggat   1740
tcctgccccc ctcccatgaa gggaggaaga ggattcaggg tcagcctagg ggaccctggc   1800
tccctccgat aggcaggaag gaggagggat gcggaggaga ggctgagcct tccacgggcc   1860
tcctgttagg ggtgttggtg gaggccaggt tggtgaggga agcctaagga ccctccacac   1920
ctcccacagc cagagtcagt tgaggctggg acaaagggga aggagagagg gaaggaggac   1980
cgcctgacct tgcccagaag gagcttcctc taaactgccc tgggaaggaa gcctggtatg   2040
ctggtgtgga ctggagctgt gtcaacctcg tttgggaata ctgtcaaaag actgtagagt   2100
agaataagga gag                                                      2113
```


<210> 5663
<211> 4450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (65)...(1861)
<223> similar to gi3882251 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5663
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aaatgatgtc agagattttt ttcatgggct ccgtgttgat gcagtgcatt tgttgaaaga     60
tcatgtaggt cgaaataatg ggaatggatt ggttaagttt ttctcccctc aagatacatt    120
tgaagctttg aaacgaaaca gaatgctgat gattcaacgc tatgtggaag ttagccctgc    180
cacagaaaga cagtgggtag ctgctggagg ccatatcact tttaagcaaa atatgggacc    240
ttctggacaa actcatcccc ctcctcagac acttcccagg tcaaaatcgc ccagtgggca    300
gaaaagatca aggtcaagat caccacatga ggctggtttt tgtgtttact tgaaagggct    360
accatttgaa gcagaaaaca aacatgtcat tgattttttt aaaaagctgg atattgtgga    420
agatagtatt tatatagctt atggacccaa tgggaaagca actggcgaag gctttgtaga    480
gttcagaaat gaggctgact ataaggctgc tctgtgtcgt cataaacagt acatgggcaa    540
tcgctttatt caagttcatc caattactaa gaaaggtatg ctagaaaaga tagatatgat    600
tcgaaaaaga ctgcagaact tcagctatga ccagagggaa atgatactaa atccagaggg    660
ggatgtcaac tctgccaaag tctgtgccca cataacaaat attccattca gcattacaaa    720
gatggatgtt cttcagttcc tagaaggaat cccagtggat gaaaatgctg tacatgttct    780
tgttgataac aatgggcaag gtctaggaca ggcattggtt cagtttaaaa atgaagatga    840
tgcacgtaag tctgaacgct tacaccgtaa aaaacttaat gggagagaag cttttgttca    900
tgtagttacc ctagaagata tgagagagat tgagaaaaat ccccctgccc aaggaaaaaa    960
gggattaaag atgcctgtgc caggtaatcc tgcagttcca ggaatgccca atgcgggact   1020
gcccggtgtg ggactgccca gtgcaggact tcccggtgca ggcctgccca gcacaggact   1080
gcctggttca gcaataacca gtgcaggact gcctggtgcg ggaatgccca gtgcaggaat   1140
acctagtgca ggaggtgaag agcatgcctt cctgactgta ggatcaaagg aagccaataa   1200
tgggcctcca tttaactttc ctggtaattt tggtggatca aatgcctttg ggccaccaat   1260
ccctccttcc agggtttagg gaggcggggc ttttcgtgat ggttaggcct ggtatgcctt   1320
cagttggaaa cagtggtttg cctggtctag gactggatgt tccgggtttt ggaggtggac   1380
caaacaattt aagtgggcca tcgggatttg gagggggccc tcagaatttt ggaaatggcc   1440
ctggtagctt aggcggtccc ccggggtttg gaagtggccc tcctggtctt ggaagtgccc   1500
ctgggcattt gsggtgggcc accagctttt gggcctggcc ccggcccccgg ccccggccct   1560
gggcccaatc ccatattggt ggttcccct gggctttgca tctagtttct ggaaaaccag   1620
gaccgacagt aattaaagtg caaaacatgc cctttactgt gtctattgat gagatttag   1680
atttctttta tggctatcaa gtaatcccag gctcagtgtg tttaaaatac aatgaaaaag   1740
```
```

                              4199
```

```
gtatgcccac aggtgaagcc atggtggcct ttgagtctcg ggatgaagcc acagctgctg   1800
tcattgactt aaatgacagg cctataggtt caagaaaagt aaaacttgta ttagggtagc   1860
cattcacatc attttttata gggtagatct tcatattgct gtgattaatg catccagatt   1920
gttttcctag tatttccagg ttagaacctg tggattgttc caatggccat atagcttggt   1980
ttccataaca tcgagcagca ttggttgact gtttacagaa agactcactc cacccaggat   2040
aaacattgct gtatgttacc agtaaagcta tctggagaga acacataaat gattttgggc   2100
ataccattag aagaaaccat ttgtaaactt caaattacca caataaggct tatcaaggag   2160
tctaggattg gttttgtttt ataccatatg ggatgaagaa aatagaaatg tcagtagaac   2220
tcattgaggg tgctcttgcc agctgctgaa aatagaagtt ggctactctc agaatttggt   2280
ttaaaagctg gacagatttg ccttgttaat agggtaaagc tttgtcctaa agtccctcat   2340
tttcctttta aaattgaata aaatttctgt atacagattc attgtatgta cctttattgc   2400
cttccttaag ggtccttgct gtatagacag tcctgccttc agaaggttgc tgctttgttt   2460
gtctaattga ctcatttgta aatgagcaga actgttttgt gggttttttt ccctaaatat   2520
aaaagtccca cacttcgttt gtgctataac ctcaaacttt gatttctaat gtcacactta   2580
aaactgtgtg gaataagact tttgccataa aaataaacta tggagtcctt tatctaccag   2640
agcctttttg gtttgaccgc cacgatttag gttagtcagt ttaaaaattg ttcatgttgt   2700
ttggatggta tcgaaaacca gaaaccactt ttaataatgt gtttaagata cttgatttga   2760
agtccttttc atatggacta attgtagtat caatttcctc ctgtcccgat tatgtgaaat   2820
tttggccttt aaacaaagag gggcccattc ataagaaagt gttatatcta ggttttaaa   2880
actgaagttg aaattatctt tgttagcagt agtagtatag aataaaagat ccgtatgctg   2940
gttcgtagat tgatacgtgt tagtcctgtt atttggaggc tttttggcat agttgttcga   3000
tcaggagcct gtttactaaa agtcttcata cagagtacaa gtgcagccgc cagaggagaa   3060
aattgagatt cttgaccctt tcatactctt ttctttggta ttcaggacac taaggcagga   3120
ggaccacatg agttctggtt ggtaagtgtc cttgtcatga aacacttgc cttacaaggc    3180
tctaattatg atttccctag tcagtgctct gaagatgtgt cacattatat tataaacaat   3240
acggaagggg agataggtga gatgatatga aaaacaaatt ttctcactgt cataaaaggc   3300
tctaattatg gttactttcc ttgtgatgaa aaacttggcc ttacagggct ctagttatgg   3360
ttactttccc tagtcaatgc tctgaaaatg tgtcacatta taaacaatac agaaggagag   3420
atagatgaga gatcatgaaa accaaatttt atcttttaca tggccccttt gtcttcgttt   3480
gaaacatccc caacatttcc tacaaatcag cgtagttaca aaggggtcag tcttttaaaa   3540
taagtatttc ctattaaact atatatatat acagtgcctt tttggtgttg tgagtcagtg   3600
gaacactgaa atacagcggt tgtgtaattt aagagtggca acagtttcat ttgataagat   3660
ttgaaaaggc ttttttatcac tacaatctta gaggattgac agtacaggat ttttgtttaa   3720
gagaaggatt gtttagactc aagaggtgac tatgttgtgg gtcttttgat aattcatgaa   3780
tacagatttg ctttgaccga tcactagata ctgcctcctc aatttcaaaa gcaatataac   3840
gtttgtatat gctgtttaat ttaagttaat gttaagtaat catttctcat tccaaagaca   3900
atgcaaaaaa cttcagcact gcttgagagt tgtatttcag ccacagatat tttctccatt   3960
ggaaagctat tttcatttta gaaaaatggg ttgtttgaag atgaaagtct tttatctttt   4020
ttcacaattt attttggtta tatgttcgta cattcttatt aaatatttca tacactttat   4080
tgcaactact ttgttatttc tacatcttag ataaatgctg aaaaggaaaa cgatttcatt   4140
gttcatctaa ttaaataaat taaaagagcg gtttgtgtag aaattggaga gaactatgtt   4200
ttatatgaat cacaacagtg ctcgttgtgg actgtaatta aatgctttgc cctctggaac   4260
ttgatttttg tgtatctgag atttattaac agtgctaact gctaaggata ctgtttatct   4320
tgttctgggc attggagttt cagttttaa aaaattcttg aaaatgtatt ctgtgaaact    4380
actcatacct ctcttcctgc gaattttctc ctaagaacta ggtttggggt agaaatgaat   4440
tgacattatt                                                          4450
```

<210> 5664
<211> 659
<212> DNA
<213> Homo sapiens

<220>

4200

<221> misc_feature
<222> (356)...(600)
<223> similar to gi1389766 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5664
cataggttgg aaactgaaac ctgcacattt gtggcaaatg tcactgcatt tacagggaga   60
gaaagaaaac cacatgactc ttctttgtat gttaaagact ttttattttc aggcccttc   120
agaggaatca attcctttaa acctttgtaa aatgccacag gagccaaggt taagcgatgc   180
ttttaactta ggaactgacc ctctccaggc agagtctcca aagtagatta cctcgaaatt   240
tcaaagaggc agttctacaa gaggagcctt tgaagaagcc aatcctgttt tccattgtt   300
tgctttcaca cacgggttga acttgaactc ttacctttct ccatttataa caaccaaaat   360
ccaccttaaa aaatcaaagg ctgggagcgg tggctcatgc ctgtaatccc ggcatttagg   420
gaggccaagg tgggttgatc acctgaggtc aggagttcga gaccagcctg accaatatgg   480
tgaaaccccc atctctacta aaaatacaaa aattagcagc ggcgggtgcc tgtaatccca   540
gctactcagg aggctgaggc gggagaatcg cttgaacccg ggaggcggag gatgcagtga   600
gattgcgccc ctgcactcca gcctgggtga cacagcgaga cttttcaga aaaaaaaa   659

<210> 5665
<211> 1300
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1301)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (217)...(811)
<223> similar to gi1055044 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5665
cttgaattcc tgacctcaag tgatccaccc gccttggcct cccaaagtgt tgggattaca   60
ggagtgagcc acctcgccca gccaacttga cataacttt aaagatggat tgccaagctg   120
aggtgaactg cgggcttcat ctggttattc aaacatcatc gcttcctgaa aaaaacaaag   180
ttgaattcaa gctaaataaa gacacatcgt cattccccgg tagactttta caacatgacc   240
ttgaaagaaa ctactcaagt aggcaaggtg atcatattaa tttggtgagc tcatcattgt   300
catcatttcc tattcttcaa cgttcttctg aagagaaaat tctttactca gacaggttga   360
gcctagaaag acaaaagctg accgtatgtc ctatcatcaa tggggaagac caccttcgtt   420
tgttgaactt tcaacacaat tttataactc ggatacaaaa tatttctaat ctacagaagt   480
taatatcgtt ggatttatat gataaccaga ttgaagaaat tagtgggctt tcgactctga   540
gatgtcttcg tgtccttctg ttggggaaaa acagaatcaa gaaaatctca aatctggaga   600
atctaaaaag cttagatgtc ttggatcttc atggaaatca gattaccaaa attgaaaata   660
ttaatcattt gtgtgagttg agagttttaa atcttgccag gaactttta agtcatgttg   720

```
ataatcttaa tgggctggat tcactaactg aacttaactt gcgacacaat caaatcactt    780
tcgtgagaga tgtggataat ttgccctgcc tcccaacatc tctttctcag ctttaacaat    840
atatctagtt tttgacagtg tttttcctgcc cttgctggac tcttctttcc ctctcgggac    900
atcacccttt gagggccaat cccataggct tcaaggagtc agggtaccaa acacactgtc    960
cttcagaata tgatgcagct gcgccactaa gatatggaag gagaattcac gggaagaagg   1020
aaaggcgtat ggcatctgtt ttagcccaaa aaaggaggga agaggaagga gccgggaaag   1080
tcctaaacca ttcttttgct taaggagaag aaaagggtta accatttaac cacgtagctt   1140
cgacagtggg acttgcaaca acgagtagcc aatattgcta caaatgaaga tagaaaagat   1200
ttctggactc tcctcaggac cctgttcaga ttgatgggaa ggcaccctct ttggctttcc   1260
cagaggccca caggggcntt taggattcag ggnttcaagg                         1300
```


        <210> 5666
        <211> 892
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (845)...(300)
        <223> similar to gi4929703 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5666
```
tttttttttt ttaaaatata tttgctttat tatgtacaca ctatatttac atcacccacc    60
ctgaaaacag caggttctgg ctttttccgtg aacccccaga tgaatataaa ttggagcctc   120
tgagaacagt tccttcccca gagcggggag tgtgcacgtg tgtgtgtaac cttctgattc    180
catgggacct ggccagctcc tctggagcca cacagcacct ccttgcctta caccctggct    240
ccagcttcac tggtccgggg gacgcctcag cctggggcag ctgtgatgta aaccagtcac    300
tccacctcca tcttcctctt ctgcaaagaa tcgaggaagt cttgccactc tgctgggtaa    360
aagcgtttat agacgttgat cttactccga atctgttttg gggtatcttg atagtaattc    420
ttctcatcac gggccatggc cttatagtcc tccccgtggt tctctaccat gtagcgtaca    480
tagtcaatga ggtcccaaga cagagtattt cctttctttt ctggaaggct ggcttctgcc    540
tccaggtcat tcagcacata gggcttccgg tacaagttct tttaggcctc ttcctctatg    600
tccaccttcc atggccttca cctttctctt acgggagggc accggccctg ttggggtcca    660
cagccaaccc catctcggcc aaggttctgc cgtaccgatt tacgcgtggt cccacggcat    720
gtcggatgtg ggagcattcg agtcctgcgc gctgccttcc gtcgagcatt ccggttcaga    780
cgctttcggt tgacactgta accaaacttc atgctaccgg gtttatgccc ttggccttgg    840
gcatcgcgct gaccaccgca ccagcagctc aaacacgctg cctctgtctc tc            892
```


        <210> 5667
        <211> 1366
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature

<400> 5667

```
cgggttgtgg tcaatatgtt ttttagaaat aaagacggaa aaacatcaca gtgcataata    60
tataaggtca atgtcttgtg atacttgatg tatgtatgta tcacacacac acatacacac   120
ctacacacaa atacacaaac atacacaatg aattccacag atattggatt gtgatgtaat   180
ctttatttct tactctgagc tccagttaga aaagtttgac aatcattgtt atagagctat   240
gttcagaaag tggagacttt ctgactcact gtgagctctg ctgtatctat gcgctccctg   300
gagagggagc aacttgctaa ggtacagtcc tggccattgg catggatatt tattgttcca   360
catgttggga aaaccatgtg caataaaaat caaacatatg aaacaatggc tgtcattgta   420
ccacagtata cattgtatct tggtgaaggt tcttaaatta ctccttggag tttcctaatt   480
cacttcagga aggatttgtt gtgttccgtc tttatgctgt cacttgcaaa cacttttgct   540
ttgctagttc ttgtattaga tcttcatata cttgcaaaaa gaggtcctct tcagattttg   600
ttccatccag gtacacaact tcccatgtga tgtcctgcat ttcttgtctg tactttagat   660
acatgggcca cacatggcca tcaaagtatc ccggagagtc tggaggctga tagacccttg   720
tactcctcct ccttttacat tcttcatatg gaatagtcag gaaatagctt ctattccata   780
tagtgtcaag gggcttataa ttaaaaagaa gaaaaccttc gatgattaaa atgggaattt   840
cctcagcact ttcctggtct gttgatacca cagagtgtct tgcgctttcc atccagcagg   900
aaatggctga catcattttt tccatgttaa gtgcttcaag cacatcgtac tgcaaaaatc   960
cattttatc tgtctctatc tcagactctg gcttgaagaa atcatcctga gatatgacac  1020
tgcaatttgg gaggtgtttc tgcaaattct tagccagtgt tgttttgcca ctgtttgtca  1080
caccactgat tccaatgata aatgttttca taattagctt tgaaaatcac agcttcctaa  1140
tatttcctgg cgccagttcg agtcctccca aacacagcgg cagaggcgac agccaagcgc  1200
gcgcctgtac ccagtgcgcc gctacccgca gctcgctccc cgagaggccc acagcccctt  1260
tccccacgct cctcctgggt tagagggatg ccaggtaggg gcggtcacca gaggcccctt  1320
ttctctactc tcggcgccgg gttccagccc ccgttggggc acgaaa              1366
```

<210> 5668
<211> 908
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 5668

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gcgggcccccc gatggctggc ctgactgtcc cagggggcaca ggctccagca ggctgcctgt    60
ctgtggtcca ggcttcagga accccggtc ttgggtgtgc gggggctggg aagtggctgg   120
gggtgcacag tcccacacct gtcattcact gaacaggcac gtattgacag cttgtggcgt   180
gtcaggccct gtgcccaact ctgggagtca aggataacct gacagactca ggccacttta   240
ggaaaacgaa atccaccccca accacactta gcgagtcacc ctggccgggc ctgggctgcc   300
ctccagtcgg tcagccggac tggatttcca cgcggccgag ccctacgcct cccagaccct   360
```

```
gagctccagt ctgcacaggc caggtgtctg gagccgggcc tggtgacagg catcccccag      420
gtgggaggag gggctgtcct ggctctgacc tggatatcag atccagagct gaggggggagg      480
tgcagggtca ggagggggag ggttctgttc tgagtttccc ctggccaagg ctgcagacaa      540
gggacgcaga caatcggcac attgtgagca ggggctgcag gatggaacca gcaagctgct      600
gtgctgagcg ccccaaacct gggcctacag gggtgaagac caagccctcc tgcgggggct      660
ggagagccgt gggcctgctc ctgctgctgc tgctgctggt gctggccgct gtggggattg      720
tggctggagg gcttcttggc tctgctcagg gccctcccaa gccaaggctg cagacgctgc      780
gaatgaccct cccgagcccc cacatgcccc ggcccaacca aaccatcctg gtggacgtgg      840
cccggaacgc ggcgaccatc acagtgaccc cacctcagag caaccacagc tgggcggtgc      900
tgttcgaa                                                              908
```

```
<400> 5669
ggaacacaga gaaaggttca cccgggagag atggcctagc cacttcctta gtgactgttt       60
ggtatatgta ggtccccctg ccattactct ttcagccttc tgcaatctag ttctacttag      120
tcacacactt ctctaagacc actcatacgt aaacactacg tagaggcccc tttttgcctc      180
attttacatt gtttagttat cattttgaaa cttttcttca catatgtaac agtgccggag      240
tttttctgct tctctgtgtt tgttcagtaa ctcttcttta ggatacacct aaagatgaga      300
agcttcatac ccagtactcc tcttcattca ctcatatgtt tttgggatca gtcccttctg      360
ctggctgtgc attggtctaa tggaacagaa tagagtccag aaataaccca acatgtatgt      420
ggacaactgg tttttgacag aggtgcaaag gtcttgaaaa aatgatgctg gaataattgg      480
gcatcagatg caaaattaaa aacaaattga tccatatctt aacactggca aagattaaag      540
tccaaatgga ttatagttcc ccaaaactgt ataatttta aaagacaaca aggaaaacgg      600
gttcagcctt gggttaggaa aagatttctt aaatccaaca ccaaaagcac aatccatgaa      660
ggaaaaatcg ataaattgta ctttatcaaa attgagaact tctctttgaa aggtaccata      720
aggagaacaa aaagacaagc tgtagagtgg cagaaaaata tttgcaaaac atttctgata      780
aatgagttgc atctaggtta cataaagaag tctcaaaact gaacaaagta aaacccattg      840
ttgacttaat gcgctgtttc ctcctgagct tgctgcctct gccctgctc tctctccttt      900
tccatttgtt ttcaacattg aatccagaat gttcttcttg agatccaagt cagatcacac      960
caaccctcag aactctccaa tagacgacca tggcactcaa aagtccacaa tagccttcaa     1020
tgctgggcaa aacatgaagc acccctttc tcccttctct gaccccatca cctctgtgtt     1080
caccctgctc ctgccgtcct ccctgcctcc aaaacaggtc aggccttcgt gcctttgcac     1140
ttactatttg caatacccaa atgttcttca ggctctttag cctcttcatt tctttcctga     1200
agtgtcattc tcactgaggg cttatctaaa agctggcagc tactgggggc attcctgtct     1260
catctccctg ctgtattttg taactcccgg gctctctttt gtactttttaa acatactata     1320
tggtttacct ttgttgttta tatttgcatg ttgtttccca cttgaatgta agctccaaag     1380
attttatttt tttaaactga attattactg tattcccaga acaattccct ggcaaatatt     1440
tggtactcaa tagtaatgct aagttagtaa ataatgatg aatttagaat caaaataacg     1500
tgtctatggc caaaataaaa cctgaaatcc ctgtcctatt ttcccagagg taactgctgt     1560
taatagttta gttgtgtgct tccagacata ccttcacaga atcatttatc acaataaagg     1620
```

tgtcatacta tgcaaaaaaa aa   1642

          <210> 5670
          <211> 1249
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (497)...(333)
          <223> similar to gi347455 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters

          <400> 5670
     cccacgcgtc cggtgtttga ccaggtcaga actcttgttc tatgcgaatg tgctcacgca   60
     gacagaagcg gaggggctcc gtcgctctgc cctcacgccg ctgaaccgcg agggtctccc   120
     gctcctcagg cttgcggctc ggccgcgaag tgtgtcaggt gtgcatcctg ggtgctcctt   180
     tgtgctctgt cctacggcga cacaggcggc gtggggttag acaggtaccg gtcagactac   240
     ggtgacacag gcggcgtgcg gttagacagg taccggtcag attacggtgg cacaggcggc   300
     gtggggttag acaggtaccg gtcagattac ggtgacacag gcggcgtggg gttagacagg   360
     taccggtcag attacggtgg cacaggctgc gtggggttag acaggtaccg gtcagattac   420
     ggtggcacag gcggcgtggg gttagacagg tactggtcag atgcacgggc tccctaaacc   480
     cctgctgtgg cttcggcagt aaagacagga cgcacccatg tcacaagagg agcacaggca   540
     ggggtgttgg tgttggggca gccctcaggg tctccagacc ccagccccac tcacacagca   600
     gcctaggaag gaagggcaga gtcccaggtg tcagctggtg ggtctcccag gagctgcccc   660
     tccctggaag tcacaggaca ggaatgacag atcagggaac tgcaggaagc tgccacctct   720
     ggggtcagaa tatgcccagc ctgcggggge tctctatcgg ggtcttcgag agccagacag   780
     cctgccttgt gctgcatacc tggctttgct ctgtgcagaa cccagcacac gtgattttgt   840
     gtgacatgcc agcagcctgg ctcccaggac aggaggcctg ccctggggga ggggctgcag   900
     gaggaggggg ggcaggcacc catgagtctg tccagccttg tcacagatgc atcgcccagc   960
     ctgcggtcct gatttcagct cacctcagag taaatcagaa taaactgcac ccagactttc 1020
     acgaatgcat gttgacgctt tcagttcacc cctttctttg ctaactttct tcctattttc 1080
     ttctaatgcg agagcttatt aattccatat ttatcatttt gaataacttt tctccttttt 1140
     aggttacaaa agtactttca ctcttagtaa aatgtattta ctattttagt aacaaaaata 1200
     tacttgccta atcatgttta aaatatagtg atgtgaaaaa ttctcgtgc   1249

          <210> 5671
          <211> 2042
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (513)...(1360)
          <223> similar to gi4587223 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters

                                    4205

<400> 5671
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ctctgttggg aactttctc atggagaaag ctaccatcgc tttgaagagg tattcttcat      60
tggtatccca ggcatatgct ttatctccca gagctgttct gataataagt ctcactttaa     120
aagcattttc tgcacctcga acgtgggggc gcggtcctta cgtgtgggcg cggtccttac     180
gtgtgggcgt gccttgttgc tctgaggggc gtaacaaaga tggtggagca ggcggagggc     240
agaggcgtcg gcaggttagc gtgcaggcgc gtggcagcga caggagatgt gtagccagag     300
cgcagagcag gtgtggactc cggcgctggg gaagcgtggc cagggcgaga tttcagcctg     360
ggtcggggac agaatgggga ctgataggg cgtaacctgg aatgacgaaa tgacgtttgc      420
tgcgtaggga cgtggctaaa cgtgagggg cgtggccaag atggccgcgt gtgggatcct      480
cgggtaccgg gagcgaacga ggaggttctg gctcagtgca tccactctgg gagagcgtgg     540
acctggttcc tgggggcgat cgacagtcac ccatcaacat tcggtggagg gacagtgttt     600
atgatcccgg cttaaaacca ctgaccatct cttatgaccc agccacctgc ctccacgtct     660
ggaataatgg gtactcttc ctcgtggaat ttgaagattc tacagataaa tcagctgcac       720
ttagtgcatt ggaacgcagt caaatttgaa aactttgagg atgcagcact ggaagaaaat     780
ggtttggctg tgataggagt attttttaaag gaaaattctc agtctccctt gaagaagtga    840
agcctccttc tttatgcact ggccactgtc taatacctcc cagcaatact cagaggagac     900
tacctgctgg aacctcacta gaattgagag atcaaatggt tttggctgtt ttcccactgg     960
agaatataaa aaatacacag ttaattttag aaacaaaggc tgggcatgat tccatcctaa    1020
gcagcaattc ttcaggtagc tgcccagaag ggcctggagc tcctctggac cactgctgat    1080
ctccagatac tccctgagaa ccgtcacctc ggcgtccaat tcctgagtgg ttttcactac    1140
taaataatga ctcagtgacc cagtctcttg gccaggacgc tgttatggaa tttgggtcgt    1200
ttggcacttc ctgcctggtg cccacctgtc tagattactg gacccaagta ggtccagtat    1260
ctccctggtc cagccctgtc ttgagtccat cacctttatc attaagaagc agccagtaga    1320
ggttgatgat gatcaggtac gttctctcca caattttcat ctaaggaaat cctcgtctcc    1380
ccttttaaaa caaggctggg ctcaaacttg taggatccag ttttaacatc ttgtaatgct    1440
tatacatttt tattgaagtg taccaacgtc ttatctcagt ttggacatga atttaaagat    1500
atttccaatt agctagagag aagagttaaa acatagaaga acataagctt tttacatcta    1560
tatttgacag tgacatatgt ttttattata catgcattgt gtagattctc tatgaaaatt    1620
aagacccttt taaataaaaa aacgaaggct ggaaatgggt gtattcaaaa ccctttaaaa    1680
tccttaaggg agttttgcta tagaatctca ggataaagac agactccgac aatattcatc    1740
cagaaatttt catgtaagtc agttgtttga aacttgggat ttattttct cttagaaact      1800
aagtctaagt ggtggttact acatcagcac acaaaatcct gtttaattca taaactaaac    1860
tgtaataata actgcgttta cttgttcata ttgggttttt attgactaaa agcttccagc    1920
ctcttttca tgcagccagg ataacagtga taccaaaacc tatcaaagat tagaccatcc      1980
tacccccaaa atataacaat aggccaatat ctctaaaaaa tatgtaacaa cagaaaaaaa    2040
aa                                                                     2042
```

<210> 5672
<211> 2937
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2761)...(505)
<223> similar to gi3135968 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

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<400> 5672
tttttttttta ttttataatt ctttttatta ggaaccagtt acctaaacaa tgtaaatgca    60
ttagaccagg agcatactag atccccgatc tagttactcg aagcacaaat tctattggca   120
aaacatgcat aaacatacac attctagatg caacacagca aaatgctgat gtatagtaaa   180
ccccccattca agaaaatatt gtaaatatac aaaactgatt ataaaacttc ccaaactacc   240
tttgaaataa tctactccaa agccttcatt ccataaagga aactaaagct taaaacagta   300
ggagttttct aatgtcacag agtgggcttt aataacaatt gggattagtt cagcccaatg   360
gtactttcca ttccataaca tgatagtgaa aatttaaaag atttcaaggc agtttctaaa   420
tccactctga ttcttcagta cttaacaaaa ggacaaacta aagtaaatat ctcccctaaa   480
tttatgatgt tcctagaatt gtcatatgcc aggatgcagt ctctgatgtt tgttgagagc   540
agagcgatat ctgaaggatt ttccacaatc attacatcca aaaggcttct ctcctgaatg   600
aattctctgg tgctgaatga gatatgtgct ctggctaaaa gtctttccca cattcattac   660
atttatatgg ttttttctcca gtatgaattc tttgatgttg agtcagatga gtgctccggc   720
taaaggcttt gtcacattca ttgcacttat agggcttctc cccagtgtga attcgttgat   780
gctgagttag atgggagctc tggctaaagg tcttttcaca tttattacac tggtagggtt   840
tttcttctgt gtgagttttt tgatgttgag caagagatga acaatgtcga aaggctttac   900
cacactcagc acactcataa ggcttggctc ctgtatgaat tctcttatgc tgtgtaaggt   960
gtatgttctg gttgaatgct ctcccacact cattacactt gtaaggtcgt tctccagtat  1020
ggatcttcct atgctgaata agggatgaac cataactgaa ggtttttccca cattcatgac  1080
actgataggg tttctctcca gtatgaattc tttcatgctt agcaagagat gaactccgaa  1140
taaaagcttt cccacattct ttacattcat aagctttctc ttgagtatga gtttttctgat 1200
gctgattaag gtttgagaga taactgaaag cctttccaca ttcactgcat tcaaagggct  1260
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cacattcatt gcatttgtaa ggttttttctc cagtatgaat tttcaggtgt tgagcaaggg  1380
atgaccagta actaaaagat tttccacatt ctgcacaatc ataggg tttc tccccagtat  1440
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attcgtacgg tttttcccca gtatgaatca tatgatgacg gataaaagtt gagggcccgt  1560
tgaaggcctt tccacattca ttacatttat aggtttttttc tccagtatga atttttttgat 1620
gttgagtaag gtgtgtgctc ctggtgaagg ttttatcaca ttcatcacat ttaaaaggtt  1680
tttctcccgt atgaattttc tgatgttcca taaagtggcc tctctggcta aaggcttttc  1740
cacactcatt acaagtgtat ggcttctcgc cagtatgaat tctctgatgc tgaacaagat  1800
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gaattctttg atgttgagta agagatggac cctcaatgaa gccttttcca cactgatcac  1920
atttatatgg tttatctcca gtatgaattc tttgatggtt tataaggttt tcactccggc  1980
tgaaggcttt ttccacaatc aattacattt gtaggg tttt tctccagtat gtgttctctg  2040
atggcgaata agagctgaac aataactaaa ggctttccca cattcattgc acttacaaga  2100
tttctctttt ttaactgggt ttgaattctg tttgatgctt cttttagtag aggtctcttc  2160
tggagatggt tcttgtgtta caaggtttga actcacattg acacttttcc caaattcatt  2220
atttacaggg ccttttttccc aactgggtat tgtctttttcg gttacctttca tttcctttgg  2280
cagtgtctgt tggtttgcct gctgtctctc taaactgcct tcatattccc aactttctag  2340
caagttggaa ctccaagaat catctctttt gtgtttttcc actattacct ctggagatag  2400
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gtctgcacag gtacctactg gaatgcttgg ctccatgatc catggctctg tcccttgctc  2520
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ctcaggagct catcccgttc ctctggaact tgaacaccag ggttcgccag gcagcgttcc  2820
ttcagctggt atctcggtct aggactcaga tgtctaactc cccttgcagg gaatctgcaa  2880
cacgctgagg ttgtctaccc tgttgcagag cgttaaagct ggaaggtgga caagcaa     2937
```

<210> 5673
<211> 3883
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3848)...(422)
<223> similar to gi396815 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5673
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tttttttttt ttggagctta ttagaacatt tattttttc tgaatgacag gccgggagtg      60
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tgggggtttg tgttggggga gcagtgggat gggaaacaca cctgtggggc agctgaacta     180
gaaagaagga tgcccaggat agctatgaga cacctacaaa gcatgggaac ccagttcccc     240
taagcccacc ccatccccag atccctttt ttctcccctta agttaaaaaa attcctttga     300
ggcagcttaa gtcaagaggc ctgtaagggg tcaagactgg gtcacaggtt taggacagca     360
gagttttgct cccggccagc agagccaagg ttctgggctg ggatgggcag cttcagggcc     420
ttcctcagct gtgggcattc aattgcccgc gtaagtgaaa gtttttcaaa cagcgacatg     480
gtttcacata gggccttcct gggcttccaa gcatgcgggc ctagctgtta gcgcaatctg     540
ggcaaagggg ggttcgcttc atagggacgg tcccgccagc actgacgcat cagctcgtac     600
acttcatcgt cacagtttcg aggctgctcc atgcggtagc cctggggcag cttttcatag     660
agctcggcac aggtcatgcc acagtagggt gtacctccaa ggctcactat ctcccaaaga     720
aggactccaa aggaccagac atcactcttg gtggtataga cactgtagtt cagggactca     780
atggccatcc agcgcacagg gagacgcccc atcgtcttct tcacataaac ctcctctccc     840
cgagaaaggc cgaagtctgc aatcttggag gctaggttct ctccgaccag cacattccgg     900
gcagccaggt ccctgtggat gaactgcttc tcactcaggt actgcatgcc attggccgca     960
tcactggcga aaacgcagca gctgccggga gcctaagggt agaggctgtc ccatgctctc    1020
gagcaaaagc tgggtcagtc tctaggaccc ggcttttccg cagaaaatct agcaggttcc    1080
cgtaggggc atattcaata gcgatataca agtaacctcg gttcttacag gcccccagga    1140
ggttgatgat gttggggtga tgccccaatt tgcacagaac ttccagttct cccgcaaagt    1200
cacgatggtc attttcagag gcatactctt tcagcatttt gatggctgcg ttcatcttca    1260
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cctcaaaggt gatgtcctcc cactctagca ctgggtagct caggggctcg ggctgcagtt    1380
ttggccgccg ggtaagtgtc aaggtccctg agctgaactg caggatggtc tcctcgcccg    1440
agcctgactg gtaggtgaag gtgcgtctcc gatgcaggca gcttctgcgg atgcacacca    1500
gggttaaaag ggcggccagg atggtgaggc aggtggcaga cacggagccc accaccgcca    1560
ggatcagctg ctgatccagg ccctcttcag ctgcccggct ctcttggact gggccctcag    1620
cctgcagccc gttgcccagg gtggactctt ctactgtgtt gctccagtcc ccgagcccct    1680
gaatgctggc ccgcatgcgg aagaggtagc gcgtgctggc gttgaggcca cggatgatgg    1740
tgcttgtctc ctcaggcctg tccacgtcta tccacagtgg gtctcctgca cccccagcca    1800
cctgcacctc cacaacgtac ttggatattg gcccaggcag agcctccggg tgcttccatg    1860
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cactggggg cagaagcacg tgtgcagggg gcgaggccgg gcccaggagg gtgcagtggt    1980
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gcagcaggaa accgtcgccc accagtggcc cgggcaccaa gggcaaggac cagctcactc    2160
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tctcactggg gtccaccaca atggtcgacc agtccatggt actgtcctgg gccggtagt    2400
gcaggcggac agtggagatg ggtccatccc cagagaacga gaccagcggg gagaccacaa    2460
gctggcggct ctgcttggtc aggagccgag gtgcagccag gggcacgggg ggcactttca    2520
```

```
cattgacctt gaagcgccgg ctgtcttggc cgccagatgt ggacacacgg cactcccaga   2580
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ccacaatggc cttggtggac aggagcacag tgccgtctgg cttgcgtagc tctatgctgc   2700
cccgcacggg gaaggggttc cctgcagctg cacagttgat ccggggcatc gtctctaagt   2760
tgaactccag ttctgaggcc atgttgagga tctgggggat ccggtctgac ttctcacagt   2820
gcactccatg ccacccagag gggcagacac aaccactgaa ccggtcacaa gtgccaccat   2880
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cgccgtcatg gtcgtggcag acacctccat gtaggcaacc tgggcactcc ttggtacagc   3180
ctggccccca gcgcccagcc ccacaacccc gcacgatgag ccgaaagaag cgcctgccca   3240
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atccgttgct cttccagatc acgtctgtct gcttctcctt gtgcacacgt gcagaaagta   3420
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aagtcaggaa gaagcgctgg gggtccgtga gccgcaggtt ggccagcagc gtcaggtcca   3780
ccgccgcgcc cacatgagaa gccaagaaga ggatggggag caagaaaggg ggcacccgcc   3840
agaccatact ccagaggccg acccaggcca gccaggacga gcg                     3883
```

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        <210> 5674
        <211> 4588
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (166)...(2962)
        <223> similar to gi4240287 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters



        <400> 5674
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cccgagcgtc ggaagatgcc ggccgtgtcc aagggggacg ggatgcgggg cctggcggtc    180
ttcatctcgg atatccgcaa ctgtaaaagt aaagaagcag aaataaaaag gataaacaag    240
gaactggcaa atatcagatc aaaatttaaa ggtgacaagg ctcttgatgg ctatagtaaa    300
aaaaagtacg tctgcaagtt gctcttcatc tttctccttg gtcatgacat tgactttgga    360
cacatggagg ctgtgaacct gctgagttca aacagataca cggaaaagca gatcggctac    420
cttttcatct ctgtgttggt gaactcaaac agtgagctga tccgcctgat caacaacgcc    480
atcaagaatg acctggccag ccgcaacccc accttcatgg gcctggccct gcactgcatc    540
gccagcgtgg gcagccggga gatggccgag gccttcgccg gggagatccc taaggtcctc    600
gtagccggag acactatgga cagcgtgaag cagagcgcgg ccctgtgctt gctgcgcctg    660
tacaggacgt cccccgatct tgtccccatg ggcgactgga catcccgagt ggtgcacctg    720
ctcaatgacc agcacttggg tgtggtaact gcagccacaa gtctgatcac cactttagca    780
cagaagaacc cagaagagtt taaaacctcc gtgtctctgg ctgtctctag gctaagcaag    840
```

4209

```
aatcgtgacg tctgcatcca cagatctcca ggattacact tactaatttt gtcccggctt      900
cctgggcttg tctgtcaaac tgctgagact gctgcagtgc tacccacccc cagaccctgc      960
agtgcgaggc cgcctgactg agtgcctgga gaccatcctg aacaaagccc aagaaccgcc     1020
caagtcgaag aaggtccagc actccaacgc gaagaatgcc gtgctcttcg aggccatcag     1080
cttaatcatt caccatgaca gtgagccgaa cctgctcgtc cgtgcctgca accagttggg     1140
ccagtttctg cagcaccgcg agaccaacct gcgctacctg gccctggaga gcatgtgcac     1200
gctggccagc tctgagttct cccatgaggc tgtcaagacg cacatcgaga cggtcatcaa     1260
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catgtgcgac cgcagcaacg ccccacagat cgtggccgag atgctgagct atctggagac     1380
agctgactac tccatccgag aagagattgt gctgaaggtc gccatcctgg ctgagaagta     1440
cgcggtggac tacacctggg tatgtggata ccatcttgaa cttgatccga attgctggtg     1500
attacgtgag tgaagaggtg tggtaccgag tcattcagat cgtcatcaac cgggacgacg     1560
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acctggtcaa agtgggcggc tacatcctgg gggagtttgg aaacttgata gctggagacc     1680
cgagatccag cccgctgatc cagttccacc tgctgcactc caagttccac ctgtgcagcg     1740
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tggcgaccgt gctggaggag atgcccccat tcccggagcg ggagtcctcc atcttggcaa     1980
agctcaagaa gaagaagggc cccagcacgg tgacagacct ggaggacacc aagcgggaca     2040
ggagtgtgga cgtgaacggg ggtcctgagc ctgccccagc cagtaccagc gccgtgtcta     2100
cgccttctcc gtcggcagac ctgctgggtc tcggggctgc cccccctgcc ccgcgggcc     2160
ccccaccctc ctccggcggc agcgggctgc tcgtggacgt gttctcagac tcggcctctg     2220
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atggtgtgtt gtttgaaaac cagctgcttc aaattggact taagtctgaa tttcggcaga     2340
atttaggtcg gatgtttatc ttttatggta ataagacctc cacgcagttc ctaaacttta     2400
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tggacccgac cgtggagggg ggcgcgcagg tgcagcaggt ggtcaacata gagtgcgtgt     2520
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agatgtaccg gctcacgctg cgcacaagta aggaagccgt ttctcagaga ttatgtgaat     2940
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tgggctgagc cttggtgtgt ggccgtcctg gtggctgcac acctggcgtc gtcctgggcc     3420
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gcaggatttt aatctagaat ttagaaacat ttgtatttgt aatgacttct ggcaaaagca     3540
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gccggcctag gagccaaggc tggggccttg cgctctgtcc ccaggatggt ggccttgttt     4020
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gggtggccac atgtgcttga gggttttcac cctggccctc agttgcctgc tgtgcgggtc     4140
cctggggcag ctgcaggggc tcatggaccc atcagggtct ccacagctcc cctgcagtgt     4200
gtgcacccca caatgtctgc ggctcttctt ccggcgtgtc gggctttgat cacagcatag     4260
```

4210

```
ccacgtcagt ggcgtgcgcc tctcgcacag gccattctgg gtctggtggt gccaggtgcc      4320
gtgacacgcc gtgctgggct tgtgctgcag ctgggtggtg tggccctcat tctcatgttc      4380
cagctgctgg gcagtgctct gcctgtgtgc tgcgcctgca ggctgcgtgt gctgccgtgg      4440
atctcctgca tcccttgacc cctcccgcca tcagaggaaa ggctgctccc cgaggcaccg      4500
cttgccctgt gcggcgctgc agaggggccc tcagtgtggc actcctcgtc aaagaaaaat      4560
aaaggctaga actgcaaaaa aaaaaaaa                                          4588
```

<210> 5675
<211> 1838
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (903)...(1817)
<223> similar to gi57920 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5675
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atggcggagg tccggggctt aagttcctgt tcatgcttcc taatcattca tggatccatc       180
acaatgtgct ctgaagggcc tctcttgctg ggattgagaa ggatacattt tttgagcagg       240
tttttatact caatggacat gtagaaggga atatattcta ctcagttccc ctcctgcagc       300
tccttgaaat tctgtccatc aaaaacaggg atctgctgac cagaggtgac tgccacagaa       360
ggtatccagt ttgtaaaagc tgaattttgt gctgaagcca gaatttgcaa tcttgatgtt       420
tgtgttaaca tccaacagcg tgttttctgc ctttaaatct ctgtggacaa tacgtttctg       480
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gcaaagagat tcctcaatat cgatcacagc aaatgtttca ctatgttggg gtgatccgag       660
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aacttcacag ctgctgcttt cccagttaag aggtcccagg ccaaccttac cttagccagg       780
ttgcccttga cgatggtctc aaggatccta gctgccagta agggtccctt ctcagcagag       840
atggctgaga ggccctgtgg catgtgagac ttactgctgg gcttggagtc aaggtgtccc       900
aggtcagctt aatttcggga aaaactggta agacgcttgg ttcaaatcac ttgaaagaa        960
aatcacttgc atagttcacc tgaagaatgg atctctataa tggaattaaa gcacaatgct      1020
ggacaaaaag taagaaaaag caacaaactg aaaggaaaaa ttgagtaaaa agaataaaga      1080
actagaactg gcaacctcag ccaagccagg gaattacata catcttggaa ttccaaagca      1140
atgcttcctt atgagggcat aggaagaaat aaatctaata acaaggctgg gattaattca      1200
cgtggttttc tcacattttg gtctcaagaa ctttttactc taaaactaat tattgaggac      1260
cccaaagagc ttttttatgtg ggttatagtt atcagtattt actttattgg aaattaaaac     1320
ctgtaggatg tttcagtggt cttttctagt ttgaagggtt taataatttt tggcttttaa      1380
agagcccata atcaattaaa atattttatt ttcctttaaa ttgtaaatga ttggtgtcat      1440
aatgatgcta caacttaact ggcattacaa tactatacaa atacgttcta ttgtataagt      1500
cacaataagg tacattatta actctataac atttagggga agatagctgt tatcatatta      1560
tttaaagttt tgcctagttt ctttgtagta gacttatctt ttccaggagc cagagaaccc      1620
gctatatcag tttcagtatc tttaaatgta gagattgcag ctgtgtgttg agaaagcacg      1680
tttcacttag catgggatgg ggacttcgag gtactggata tgtcactggc acctcagggg      1740
aggaaaccaa gatgcccta tatgatttta aacatggttt attaaagcgt gatacagaaa       1800
agtgcacaaa ttgtccacct acagcttggt gactgttc                             1838
```

```
<210> 5676
<211> 1020
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (220)...(767)
<223> similar to gi1174092 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 5676
ccgcaaatat tgaatgcttt tcccctaaca caaggataac cactttcatc acttctcatc      60
actggctaga gaacctagcc agtgtagtaa gggaagaaaa agagataaaa aacatacata     120
ttgtaaagaa agaggtaaaa ctgtttaatg catagctcac ataattagtt ttgtagaaaa     180
tcctgtggaa tctacaaaaa tgctcatgaa acttgtgagt ttagaaacat cacaggatac     240
aagatcaata tacagaaatc aattgtttta tatactggtg ataacaaaaa ttaaaataat     300
acagtacaat ttaccacaca tcaaaatatg aaatatttag ggatagattt aacaaaatca     360
agacctgttc actgaaaact ataaaacttt gctatcagaa attaaataag acctgaataa     420
atagaaagat atttttttgtt cattgcttgg gaaattcaat attgttaaga tgctagttct     480
ccccaaattg ctctataaat tctatgcaat gtcaaccaaa atctctgctt ttaaaaaaat     540
tgacaaactg attctaaaat tcctataaat gccaaaagcc tagaataatg aaagcagttt     600
tgaaaaagaa ggagaagttg dacaagtaca aattttgaga cttattataa agctaaaata     660
atccagaaaa tgtggtattg acataggata catatataga tcaatggaac agagtagaga     720
gaccaaaaat agattcaatg tatagggtga attgattttt gacaaaagtg gcaaaatact     780
ttaatgggga ggatggtagt cttttcaaca agtgatgcta gaacattgag ttctagcacc     840
agtagaacta gaatgtggaa aaagtgaact ttgggcatat catgttgaaa aataactcaa     900
aatggatcac agacctaagc acaagaactg aaaatataaa acctccagaa gaaaacatag     960
gagaaaatcc ttgcaaccat ggaatgagca aagattttttc agggccccca gtgcatgaaa    1020


<210> 5677
<211> 2856
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2619)...(2456)
<223> similar to gi1110587 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters



<400> 5677
```

```
tacgagtaca gcttccgcac agagcagagc gcagccgcca ggctcccgcc cagccccacc      60
aggtgtcagc agatcccgca gtcctgagga gccagcggcc acctgcgggg agaccaccgc     120
cgcccagact actgacggca ggggctgctg cccccgcctc ctcctgccgc ctccgccagc     180
cctccctccc acactgcccc agcagggctg gcccggagac tgggcagcta agtgggcgca     240
tcctgtcttc agctggcctg actgacaccc cggcctccct ggggacattg ttcataacca     300
tgactaatct gtgtgtgctg tagtgaccag cggctcctaa cgtgtctgtg tgatgaccag     360
ttgtcctcca aaaacctcac tcaccacgga gtcaccctga gggccccggg cagttgccct     420
ggccgcccag tgacgcccac cggctccctc cgctccctcc tgtcacctac cagggcagac     480
cccactaagc cgttgagtct cttcctggaa gaccctgagg gccggcagct ttgcctagga     540
ctctccaggg tcgctgatcc tccccggccc agggctgcca ggaacaagtt cctctctgca     600
ggatctcaca gcagccctga gaagacatgg gaggaagaag ccagtggccc tggggtggac     660
cctgcccttt tggacatccc atggacttgt cacccagtcg cctggaagtc ggggagcagc     720
acccctgccc ccggtggagg ggttgttgct ttctggggag gaggacggtt gacggccctg     780
cttggatcca ccaccaggac gctgtgctcg gccatggcgc gcctccccca agggctcatc     840
tgtgcaacaa ccacatgcca acaatagctc caggtgcctc agccccgtgc cctgacccgg     900
ggaccacagg gacaccctct gagacgtgct ggccccagga ggatacaggc acacgggcac     960
ccagccccctc tcagagccag gcgtgtcttg acggtatctg ctgacgggaa caagtcattc    1020
tgaaaggtcc ctctgaccca ggtcaccaaa tttgggccag aactggcact tccgagtgcc    1080
cactggtgct ggcgtcctca aagtgccggg cgccaagttc agccccaggt gcgtttgcct    1140
aggcagtggt ggctgccatc cctcggggcc caggccctca cccgaagggc tgcctcactc    1200
tgtggtgtca ggcactgggc tgtgtcctga ttcctcagag tatggggacc tgacatcttt    1260
gggtccccaa gagttggctc ttggatgtgg aggcttgatg ctgcggttgg gggctgcact    1320
acctgcgtcc gtggaagcct ctgcctcagc ggggacggcc tcctgctgca ggtcctgggc    1380
agcccacagt agtgctagct gaggcccaga ggaacgggag gaaagggagg cagcgccgga    1440
cggcgcagct ggccaagagg cgggcggggc cagaaatacc tcatgcccct gcaccagccc    1500
ctccgtctcc aggccccagg cctctttgtg gacccatctt cctcctctgc caccccgatc    1560
ttcactcgga tacctcttga tttctgtgga taagggaagc ggccacttct ccctccctga    1620
gacccgagga tgcccctggt ggggtggcc ttctcaggac tcctgggtgg cacagcagca    1680
ggaccttgtc atgggactga tgctgagcag ggaggggct gccaggctgg ctgccgatgc    1740
tccgttcaca taagccagtg tggttctggg gacctgagga gccctgtggc acccacaggg    1800
ggcacctatg tctgccgtgg ctcctcgggt ggtgccctgt gtgacaaagc caacagcaa    1860
gggtgactcc tggcaggtgg gggcagcagg agggcagagg gcagagctct ggccacttct    1920
gcccacttca ttagggtttg tgaactttgt ccttcacctc ttttcgtgcc ctggttgtga    1980
gattgcctct aacaggtaat gccaggggcc cttcactccg cccccatgac tgggaagagg    2040
cctgtggcag cgccgctgga ccctaggagg ctcagaggca gtggtgtggg agccctgtct    2100
gcaaggacgc agaataagca gtgagggcgg ctgcaggaga ggaaggggct cccacagccc    2160
ccactgatgc cgctgcaggc ccctgtcgag ctggggtccc agccaggtgc ccccgcatgc    2220
cctcctgcag ttgctggatg gatagggaca ccaggaagag gacaaactgc atggactcaa    2280
gcgagctgga gccatcttct ccatagcatt acggacttag cataagagta aatgactgtg    2340
aacgttgtag taaacggcag cttaagataa gtaagcagag acagtgttaa ggacgagttg    2400
gtgtctgtgg tagcttttag gctgctccta acccaccatt tattgccttc tgagaggtgg    2460
gtgaggacaa gcatgtgcct gtgtgtgtgt gtgtgtgtgt gtgtatatgt gtgtgtgtgc    2520
acgcacatgc gtgtgtataa gcccacctga gtggggctcg tgcaggagaa ctgaggcatg    2580
aaactctggc tcaaacctag gaattgagag cgtttctgtc ttttgggaga gtacttttct    2640
ccacgagccc tctggccact gtgggaggga aggacaaggg ttcccttgga aatgtgaagg    2700
gtcttggcct catccctcag gtcccccac agcacttccc actacttgct tctgtccctg    2760
ctggcagcct ctgtccctcc agaacggcta accagagcac actgtcccca ccgcctcccc    2820
tttctctctg gaaagttgaa gtatctccaa aggcct                             2856
```

<210> 5678
<211> 3556
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc_feature
<222> (3486)...(1910)
<223> similar to gi2264346 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters




      <400> 5678
gatgttaaca tactttgttg ctatatggaa cttaactctc tactgttttt ttaacaacaa      60
aagctaccct tatacaaccc accaatttaa tgaacaccat actttataaa ttaatacaac     120
gcaatctaaa tgcaccataa atttatattt gttaatcttg atattagaac atttttacat     180
ttcaaactac ataaaaatat aacaatataa aatagaaatt tgttgacaac ttacgtccaa     240
aacatcacta tttcttatat tgcaactaag caacaagaca gcttacacag ctctccagaa     300
aacatagtgt tttttgtgtt atcaacaaaa atcagcacaa tcccacacaa taatgtcttc     360
aatttattat cttttccaca gtacacattt ttcacaaacc gtaaatcctt tgcagttatt     420
caaagtgtgt aaacaattgc ctgaatcccc atatcccccc ccctcggctt aaggttgtga     480
atgttttaag tccttcaatc aagtttcaac tcttccactt gcataaggaa tcaagagcct     540
tctctcttta aaatatgtgt gttttatcat acagcctgca atgcagtaaa tcacagtgaa     600
agccctgggg aaaacaaaac aacatgatct ttacagcggg acttgaaact tcacaatagt     660
aaatgcagtt caagaagctt cccataataa aagcgcgggt tttcatttcc agaaatcaag     720
tcaattagaa accctaggtt ctacttaaaa acccattttg atttaaaagt gaaaacagtc     780
ccctatccat agtcatttta taaactctat acagtttcac ttgcagagat ttttttttt      840
ccagtctgga aaacagtagt gcaattacgt tttacttctt ttaagttata tagtccagga     900
tgtaaatagc tctgtggaaa gataagaaga tgctctggta aacaagaaat ttttgcaagc     960
ccatgctggc ttacgagtcc attaaagctt gtaagtccat cgtggctttc aacaaaatgt    1020
tgcatataca tcactgagaa caaagcagaa ataaataggc agaaatgact gtaaactgtc    1080
tcatttcaat gattttttcag taataactgg cttgatgaat tgattatata tagtcactta    1140
aataagcaga cagtagacag ttgcccttct ggatgttcca ctatggcatc cggcctggaa    1200
agccccaatg gagttacatt cctaaaatta aaccaaaaaa aaggtgggga gtggagggtg    1260
ggggataata gtttacagat gccacttgaa catgattcca tcaagtcagc cagttcactt    1320
agatttcttc ttaaaaaggc ttttgatttt tgatggcttt ttgcttttct ctccattatg    1380
acaaaggtca tgtgggatgc tgcttattct ggcaacactt ggggcttcct gaactggttt    1440
actgtcgttg ccagctgagg aacatgatgt gtggcgaggt ttaggcaccg ggatgccact    1500
ggaaagctgg ttcatgctac aggatttctc caaaatgcca ttgtacactt tgcttgcagg    1560
actgaagatc atactcttag tttctgtcag acctacacag tcgggagaac cccaagacac    1620
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tccaatggaa gaatttaagg agtcacattc tgaagctgtg tctggcactt cccattgctt    1800
ttcagcagag aagtaaatgg cctcttcctc ctcttcattt cgataaagcg cagggcaact    1860
tgacactgag aggatatctg gatcagggga aggcaaggag tgtggtgtgt gttgcgggtg    1920
gtgagggtgc cgagggtgtg acgggtgggg ggcgtgtgga gcaagctgag ctcgctgagg    1980
ctgaggcgag gacggcacaa tgctgcggcg tgaacggcac aggctgctgc ttctggctaa    2040
tgatccagga ggtttagcca tggtcccggg aaattgtgac actattgggg gtgtgtcttc    2100
atctaagtca tcaactcctc cagcaattgg ataggtgga atggagactc tgggcatcac    2160
cacccagctg tgatcagaat aaagggaaga ggtcaggctg gggagtcctg agttatgggc    2220
tatctgaaag ccacagatct tctcaatttg ttgccagcga aaaagtcgtt ctcgtaaaca    2280
agttgtcaac tcagagagag ctttctttgc ttccagaatt ttgtggtcta cctcatctag    2340
ggaggagctg tgtgcaacgt gcagagtccc aaagactgtg cttctcttct ttttaatttt    2400
ttctgcctca tctttagcaa tagctagctg catttcagcg ttttgtcttt taatattgta    2460
gtattgcact tctacttcat gtgttaactg aagccatttc tgaagtgcat ctggaacaga    2520
ccaactgctt ctcagttcaa attctttttc ggcctttttc agagccatgc gaacctgttc    2580
caattcctgt tctgcatact gacgtctact caattcacat tcagctccct cccttagctc    2640
tctcagccga caagcctcct cctttgcata attgatttca tccatcattt tgcgctataa    2700
attttgcttt tctacagcaa catttctgtt ttcttcctgt gccttttcaa gcctctcttg    2760
```

                                4214

```
taagtccatt agactttgct ctgcagtttg taagctctct aaatctttca tcatttttgc      2820
aacatgttct tttgatgtct tattctgcgt ataagcaaac cagcagcctc caacaccaat      2880
tactatagaa actgtgagga taaaatcttt catccagtta tgaggtgggc gtgttagagg      2940
tccaaacaaa accacatcca atgccttgag ctgaagtttt tgtctgtgac tccggtcact      3000
gattttcaac tgggagatca taaatgaagg ttcgtgcact gctatcctgg gaagtgtcgt      3060
tcctttgaca ttgttgtctc taaaattctt ctcatattgg ggtagttcaa caaactctat      3120
caaccactga agagtgtctt caagggtcca attatgaact tctgatgttt tccatcgttt      3180
ccataaatcc tcaatcgtta tatgtttatc ttctctgtgc agatggctgt gtttattagt      3240
agcatcttta tatttcatat cttctctgat gaattcatca ctttcctcta cttcaattcc      3300
accatctttg tcatcatcca tttgtttatg tattgtttga agagcttcca gactaaatct      3360
gtcttcttct gtaaagcatg gtggactcag tgacatgcag ggatcttatg gctggacttg      3420
gtgtctcatg cctgtaatcc cagcacttct ggaggctgag gagggtggat tgcttgagct      3480
cagaagttcg agaccagcct gggcaacatg gtgaaacaca gtctctttta tttctcttct      3540
tttctaggtt atattc                                                       3556
```

<210> 5679
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (150)...(24)
<223> similar to gi3649785 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5679
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cccgccactc ctgaggagaa ggggacgcgc ggcgcgctcc tcaccgggcc cgggcccagc        60
gcctatcgcc gcccacgcga gcctcacgaa tccaggaatg cggaacccga ggatactgag       120
ggccactgta cattgcaaaa aaatgggaca aaagacttag tggaaagggt ataaaagctg       180
atgaagcaga gcctgaggat tttgtggtgg aaaaagtact acaccaaggt gtggtgaatg       240
ggaaggtgga atattccctg aagcggaaag gatttacact tgctgacaat aattgagaac       300
ctgaagaaaa cttagatttt cctgagttca ttgaactatt tcttaatcct caaaaaaact       360
ggtaaaggaa aagatagtac aaaaagaaaa tctttatccg agagtgaatc tgatgacagc       420
aaatgaaagg gatgctgctg aaaaac                                            446
```

<210> 5680
<211> 1979
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (405)...(1824)
<223> similar to gi4154598 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5680

```
gaaaagctgt gttaaacttc tctgcatctg gaagtgtgat ttcccttact gggtccaatc    60
caatgcatga tgctagcatg tggcatctga agaaaaatgg aataattgta tacctggatg   120
tacctctact aaatctaatt tgccgcctaa aattaatgaa gacagatagg attgtaggtc   180
agaattctgg aacatctatg aaagacttac ttaaatttag aagacagtat tataagaagt   240
ggtatgatgc tcgtgttttc tgtgaaagtg gggcttcccc agaggaggta gctgacaaag   300
tgctgaatgc aattaaaaga taccaagatg tggactcgga aacattcatt tcaacaagac   360
acgtttggcc tgaagactgt gaacagaagg tttcagcaga attctttatt gaagctgtaa   420
ttgaggggtt ggcttctgat ggtggcctct ttgttcctgc aaaggagttt ccaaaattaa   480
gctgcgggga gtggaaaagc ctagtaggag caacctacgt agaaagagca cagatactgt   540
tggaaagatg tatccatcct gcagacatac ctgctgccag gttgggagaa atgattgaaa   600
ctgcttatgg ggaaaacttt gcctgctcaa aaattgctcc tgtcaggcac ctttcaggca   660
accagttcat cctggagttg tttcatggac caacaggatc atttaaagat ttgtctttac   720
agcttatgcc tcatattttt gcacaatgta tcccaccaag ttgcaattat atgatacttg   780
tagctacttc aggagacaca gggagtgcag tcttaaatgg ttttagtcgt ctaaataaga   840
atgataagca aaggatagct gtggttgcat tttttcctga gaatggagta agtgattttc   900
aaaaagcaca ataattggc agtcagagag aaaatggatg ggcagtgggt gttgagtcag   960
attttgattt ttgccagaca gctataaaaa gaatttttaa tgattctgat tttactggct  1020
ttcttactgt ggaatatgga acaatcttaa gttcggctaa ctccataaac tggggccgac  1080
tacttccgca ggtagtttat catgcttccg catatcttga tcttgttagt caaggattta  1140
tttctttttgg aagcccagtc gatgtctgta ttcccacagg aaactttggt aacattttag  1200
cagcagtgta tgccaaaatg atgggaatcc cgattcgaaa atttatctgt gcctctaatc  1260
agaaccatgt ttggactgat tttataaaaa cagggacatt atgatctaag gggaaaggaa  1320
aactaggcac aaacctttt caccgttcaa tagatatttc ttccaaatct ttcaaaccta  1380
gaacgacatt tacacttgat ggctaataaa gatggacagc taatgacaga attatttaat  1440
cgattagaaa gtcagcatca tttccagata gaaaaggctc tagttgagaa acttcagcag  1500
gattttgtag ctgactggtg ctctgaggga gagtgcctag cagctattaa ctccacctat  1560
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gtgcaagaca aaacttgccc tgtgattatc tcatctacag cccattactc aaagtttgca  1680
cctgctatca tgcaggcttt aaagattaaa gaaatcaatg agacttcatc aagtcagctc  1740
tatttgctgg gttcatacaa tgcattacct ccactgcatg aggctttatt agagagaaca  1800
aaacagcaag agaagatgga gtaccaggtc tgtgcagctg atatgaatgt cttgaagagt  1860
catgtggaac aacttgtcca aaatcaattc atatgaaagc tttcagagta aatttttttt  1920
tctagctata agcatgcaat aataaatctc aaacactgat ttggagtaaa aaaaaaaaa   1979
```

<210> 5681
<211> 4567
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (329)...(3922)
<223> similar to gi3882179 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5681

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agaggaagaa aatggcagag aatacaaatt tgatgtttcg tcagagttac tagagtggat        60
ttggcatgat aacatgcagt ttcttcaaga caaaaacatt tttgaacata catattttgg       120
atttatgtgg caattgtgta gttgtattcc cagtacatta ccagatccta aagctgtgtc       180
cttaatgaca gcaaagttaa gcacttcctt tgtcctagag acatttattc attctaaaga       240
aaagcccacg atgcttcagt ggattgaact gttgacgaaa cagtttaata atagtcaggc       300
agcttgtgag tggtttttag atcgtatggc tgatgacgac tggtggccaa tgcagatact       360
aattaagtgc cctaatcaaa ttgtgagaca gatgtttcag cgtttgtgta tccatgtgat       420
tcagaggctg agacctgtgc atgctcatct ctatttgcag ccaggaatgg aagatgggtc       480
agatgatatg gatacctcag tagaagatat tggtggtcgt tcatgtgtca ctcgctttgt       540
gagaaccctg ttattaatta tggaacatgg tgtaaaacct cacagtaaac atcttacaga       600
gtattttgcc ttcctttacg aatttgcaaa aatgggtgaa gaagagagcc aatttttgct       660
ttcattgcaa gctatatcta caatggtaca ttttttacatg ggaacaaaag gacctgaaaa       720
tcctcaagtt gaagtgttat cagaggaaga agggggaagaa gaagaggagg aagaagatat       780
cctctctctg gcagaagaaa aatacaggcc agctgccctt gaaaagatga tagctttagt       840
tgctcttttg gttgaacagt ctcgatcaga aaggcatttg acattatcac agactgacat       900
ggcagcatta acaggaggaa agggatttcc cttcttgttt caacatattc gtgatggcat       960
caatataaga caaacttgta atctgatttt cagcctgtgt cgatacaata atcgacttgc      1020
agaacatatt gtatctatgc ttttcacatc aatagcaaag ttgactcctg aggcagccaa      1080
tcctttcttt aagttgttga ctatgctaat ggagtttgct ggtggacctc caggaatgcc      1140
tcccttttgca tcttatattc tgcagaggat atgggaggtg attgaataca atccttctca      1200
gtgtctagat tggttggcag tgcagacacc ccgaaataaa ctggcacaca gctgggtctt      1260
acagaatatg gaaaactggg tcgagcggtt tcttttggct cacaattatc ctagagtgag      1320
gacttctgca gcttatcttc tggtgtccct tataccaagc aattcattcc gtcagatgtt      1380
ccgggcaaca aggtctttgc acatcccaac ccgtgacctt ccactcagtc cagacacaac      1440
agtagtccta catcaggtct acaacgtgct ccttggtttg ctctcaagag ccaaacttta      1500
tgttgatgct gctgttcatg gcactacaaa gctagtgccc tatttttagct ttatgactta      1560
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gcaaatgcag gacttgtctg caacagagaa actcactcca agagcaagaa gccaaagaaa      3300
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ataccctgtg taggaccatt gaatctacaa tccatgtcgt cacaaggata tctggcaaag    3900
gaaaccaagc tgcttcttga cattaggtgt agcatgtcta cttttaagtc cctcacccc    3960
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taaagaatcc tctttagctg tggcctggca gtatataaat ggtgctttat ttaacagaat    4440
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aaaaaaa                                                             4567



        <210> 5682
        <211> 3213
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3046)...(644)
        <223> similar to gi5457357 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



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attaagacag caacaagtga tctggattca atctttaaaa tattaagtca aattaaaatg    180
ttcttatcaa gactccaatt taatttcaca gcccatctgc cacaggggaa ctgaggagaa    240
acaggaatga agagtgggcg acaaagagaa agcatccctt cccacacgcc aagagtccag    300
tgcaacgatc cctgccacac ggtcagccga ccccacttgg tgccacaggg tccagcctcg    360
gccactctgg gctcaacctt tccagcacgt ctgggagccc aatgaggcta tgggacagtg    420
tgcatttccc tcaaggcctc cggaaagtca cctgccaccc actgtgacct tctgaggctg    480
aaaggactta aggactcctt tcccccatca tttcagctgg cccagtggct gggctaaaat    540
cagcgcagca tttcccattc ttctgaaag ccacagctga aataatgcac cagctgaaaa    600
ccaccagtgg agagacttga gatgggcctc cctctgggcc tctagttggc aactttctca    660
cccgggggct cctctttctc cttttcccgc tccttgttcc agtccttaag gccttctgga    720
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tttctaacaa cagaagagca accttctcca cgtcagcttt cttttctgtg agaagagcta    900
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```

4218

```
tggcttcact gtaaggtttc tccaatacca ttgtccccct gacgtgggag gtcaaaggag   1020
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aagttaactt ttcacaagtc atcttgagca ccagttgtaa ttcttccaaa gaagatttct   1140
tcagagactc gaccacctaa agtcatacac atcctatcca agagctgctc tttggtatag   1200
aggtattgtt cttttggtaa atactgagca taacctagtc ctttgccacg tgggatgatg   1260
gataccttta aaagcgggtc tgcgtgctcc agataccagc cggcaaccgc atggcctgct   1320
tcgtggtatg ccacagtctt cttctcctca ggctgcaaga acctgcgttt tcttctctaa   1380
gccaccaatc actcgctcaa ttgcctgttc aaagtgtttc tgatttatgg aatctgacag   1440
atgccttgca gcaatcaacg cagcttcatt acagacatta gcaacatcag cacctgaaaa   1500
ccctggagtt aaagatgcca gttttcttgc caatttatcc ttctccaggg tactgtccag   1560
ttttagcggt cggagatgaa ctttgaaaat agaagctctt ccttttatgt ctggtggtcc   1620
aataaagatc tgcctgtcga aacgccccgg cctaagtagc gcggggtcca ggatatctgg   1680
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cagcagctgg ttgagtgtgt tctcctgctc actctgccct ccaaagttgc ctcttcctct   1800
cttccttccc accgcatcga tttcatcgat gaagaggatg caaggggcat tcttccgagc   1860
aagggcaaat aagtctcgga ctctagcagg gcccacacca acgaacatct ccaaaaactc   1920
agatccacta acggtgatga aggggacatt ggcttctccg gctgtggcct tagctagcag   1980
cgtcttccca gtgcctggag gaccagtgag aatggcaccc tttgggattt ttgctcctag   2040
gtcttgatac tgctttgggt ttttcaagaa attcacaaat tccatgatct ctagcttggc   2100
ctcctcacag ccagccacat ctttgaactt cacatcaatt tcatccttta agaccttggc   2160
agtggtttct ccgacactga agagtccgcc catccctcgg cctgtccggc caatggcagc   2220
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cagcagaaaa gagccatcac tttcagcaat gtagacaaca ggcacccgat tttctccttc   2340
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attaaaccaa acgtattgcc catcaacagg agttttcct ggtgtaaagg tcactcgaac   2460
aaaacgcttg ttgacgactt ccaatctgtc tactactcct tttgaaagat agttattgac   2520
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accccagaac agagcagtcc agaggaagaa catcctgaaa tccttgtcgt cccatggaat   2640
gtcacccttc tgaaacctgg accaccagtg agaatcatct ttcttgccac ctcgttttcc   2700
accgccacca cctcctcctc cagaagagcg tgtggtagca gctggctttg attctttttt   2760
ctctcccata acttctttag gttcactagc ttttttttcca ttttttccat taggaaagta   2820
ttttccaaat ccttttgggg gtcgagaaca gaatctttga taagcagcaa ttatatctgt   2880
caaaagagaa tttctgctgg cccttgcttg agttgtaaca aatcggtaaa gcgtccggag   2940
gcagggctgc tcgcccgggc ccacgccgcc aggcacgagg agctgctgta ggccgcgggg   3000
ccagcagccg ccccggcccc acagccgcaa acagcggtgc gccatggccg ccgccgtggc   3060
cctctcggcc cgggacgctg cgcaggcgcg ggcaggcgac gactggcggc ctcgggaagc   3120
gggctcggct cggggaaagg ccgccaggca gcgaagcgcg ccggcggctc acggaggagc   3180
ccaagctctc aacgcggcgt ctccctcgt gcc                                 3213
```

<210> 5683
<211> 2896
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (390)...(995)
<223> similar to gi4262296 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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ggaaggtgac agtactacct tcttctagaa aacaaagatt gttcaaccac caccatgaga   120
acaggtggaa aatatctcta tagacccaac ctggcaatga agtataaaca tcgcaccccg   180
cagggcttct cttggtgccc tagttgggtt cattttttgt tgtgactatg aatgggaaga   240
agtcacaccc tgtaaccact ccaactccct aaggagtcac ctcttcttta aggaatagct   300
ttcccttgta tctaaaaaac ttggaactga catgaatgaa cgttggccac tcttaccect   360
ccaggggtca caatctataa cgcctaggac ccaagaatat cagaaataag taagcaataa   420
aactaattct ggcaggaatc agggtggcaa taggactagc agcaccctgg ggtggctttg   480
cctaccatga gttaacgcta aagaacttgg ctcaaatcct agaatcctta gccaccaacg   540
gagatcaggc attaaagaga attcaagagt tccccagact ctggaaaatg tagttgttga   600
taacagacta gcattggatt atttactagc tgaacaaggt ggggtcttgt gcagttatta   660
ataaaacctg ctgcacatat attaactctg gacaggttga ggttaacatt caaaagatct   720
atgagcaagc tacctagtta catagatata accagggcac tgcccccaac tatatctggt   780
caaccatcaa aagtgccttc ccaagtctca cctgttttc acctcttcta ggacctttga   840
caactgtctt gttacaaatg tttggtcctt gcttctttaa cctcttagta aagtttgtgt   900
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taaaagttgc taacaccact ggcttgcctt gagttccttc ctgggcaaag ctaagaaccc  1560
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cactgttgaa taaaacacac aatagtctct gtggtcttct ccaccccacc ccacaccagg  1740
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cctggacacc ctcactcacc ctgacaccct cactcctcac cctggactcc ctcactcacc  1980
ccagacaccg tcactcctca ccctggacac ctcactctgc accctggaca ccctcactca  2040
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gagtagctgg gactacaggc atgcaccacc aagcttggct aatttaaaaa aaaaattata  2880
tagatatggga cttgct                                                 2896
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3019)...(1805)
<223> similar to gi4098299 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5684
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ataaagaaag tgctcatagc aacgtattgc agtctccatg aaagtgcata taaacggtta       180
aggcaaagta ccatcttggt acagacatgt tgcaaactga cttttaaaac aattttttaa       240
aatatataca aactttttt cttctattct tctcaaaggc atttgaaagg gatacttta         300
tgaatattct tgctgtagaa caatgtagaa ataacttctg ggtataaaac agtaaaaata       360
aaaatattct acctgagtgt gttaaatcaa gtgatttgta aaacaaaacc ttcacaagtg       420
tgggctttct acatgtaact tgccaggctg aaggcttaca ccctcatgtt ctacaacaca       480
gatcactaat gatgataaca tgagttaaat tgggattctt gcccttctgt gtggcttttg       540
gcttctaggt tctatgacca aactattgac atatttgaag tctgtatgca gtcattgtgt       600
gataaatcta ctttacagct ttgcttctac ctgcagctta catgataacc atgctgtgaa       660
gtgctacata tgcttcatac aatatgttgc cccatctgat aataaaaata caaaggtgct       720
ctttaagcta aaccataaac cttattagag aattctagtt aagtgttttg ttttttccaca      780
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cgacgtagcc aagtaaaagc tacagttccc attattccag ttatagctga tgctcccatc      1980
aaaatactga ggatggaacc actcagtccc tgagtgtagg cgtaccctgt ggtgatgcag      2040
tcaaagccca ggacagtcat ataaaggaaa gcaagaccca tgccagccag aaacacaggc      2100
tggttgtagt aggagaccca tccatctcgg aaggtacgga agggctcagc catctgggag      2160
gcacaagtag gctcttgctc atgttcaagc tcatggatgt tagagtcttt cacacccatt      2220
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tcagtttcct cttcttaag accagctttc acagctagag ctggggtttt ctggtaaacc       2340
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cagccgatga ctggggagcc aaatgtcata atctggccaa cagccatggg ggctaagatg      2460
ttggttaact ggtcaatcct tcgtattgtg gcattcatat ttgctagttt gcttctgtct      2520
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aaatttgcaa tatttgcaat agtgatgatc aggatatagc aggaagtgag aacccatcca      2640
```

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ttgtccaccc agtcaccgat gatggctccc aggaccagaa cagaccctgc caccaccagc   2820
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aggggcccag ggattttctt ttttccttct ttccaaactt agctaacact gtagctgaag   3240
ttggaaaggc aaagccttat ggaagcggtt tgggaggctc agcaggtcgt ccgagcctag   3300
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```


<210> 5685
<211> 1727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1728)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1363)...(1553)
<223> similar to gi1770466 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5685
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cgagcgcgga acgcgagggg ctgctggggt gtttgtcgca gcgggttttc ctcggcggtt     60
tgcggagctg ctaggatgga gcaggttgcg gagggagcaa gggtgaccgc agtccctgtg    120
tcagctgccg acagcactga ggagttggcc gaagtcgaag aaggagttgg agtagtgggc    180
gaagataatg acgcagccgc gagaggagcg gaggcctttg gcgacagtga ggaggacgga    240
gaggatgtgt tcgaggtgga gaagatcctg gacatgaaga ccgagggggg taaagttctt    300
tacaaagttc gctggaaagg ctatacatcg gatgatgata cctgggagcc cgagattcac    360
ctggaggact gtaaagaagt gcttcttgaa tttaggaaga aaattgcaga gaacaaagcc    420
aaagcagtca ggaaggatat tcagagacta tccttaaata cgacatatt tgaggcgaac    480
tctgatagcg atcagcaaag tgagacaaaa gaagatactt ccccaaagaa gaaaaagaaa    540
aaattgaggc agagagaaga gaaaagccca gatgatctga aaagaaaaa agcaaaggcc    600
gggaagctaa aagacaagtc caaaccagac ctggagagct ccttggaaag tttagttttt    660
gatttaagga caaagaaaag aatttctgaa gccaaagaag aactaaagga gtccaaaaag    720
cccaaaaaag atgaagtaaa agaaacaaaa gaattaaaga aagttaaaaa gggtgaaata    780
agagatttaa agacgaaaac aagagaagat cccaaagaaa atagaaaaac aaaaaaagaa    840
aaatttgtcg aatcccaggt ggaatctgaa tcaagtgtac ttaatgattc tcccttttcca    900
gaggatgaca gtgaagggct acattccgac agcagagaag agaaacaaaa cactaaaagt    960
gcaagagaga gagcagggca ggacatgggg ctggagcatg gctttgagaa gcccctagac   1020
agtgccatga gtgctgagga ggataccgat gtcagaggca ggaggaaaaa gaagaccccg   1080
agaaaggctg aggacactag agagaacagg aagctagaga acaagaacgc tttcttagag   1140
aagaaaactg tgcctaaaaa gcagaggaat caagacagaa gcaaaagtgc tgcagagtta   1200
```

```
gagaagctga tgcctgtatc tgcccaaacg ccaaagggcc ggaggttgag cggggaagag    1260
agaggcctct ggtccacgga ctcagccgag gaggacaaag aaaccaaaag aaatgaatcc    1320
aaaaagccca aaaaagatga agtaaaagaa acaaaagaat taaagaaagt taaaaagggt    1380
gaataagag atttaaagac gaaaacaaga gaagatccca aagaaaatag aaaaacaaaa      1440
aaagaaaaat ttgtcgaatc ccaggtggaa tctgaatcaa gtgtacttaa tgattctccc    1500
tttccagagg atgacagtga agggctacat tccgacagca gagagaagag aaaagcccag    1560
atgatctgaa aaagaaaaaa gcaaaggccg ggaagctaaa agacaagtcc aaaccagacc    1620
tggagagctc cttggaaagt ttagttttg atttaaggac aaagaaaaga atttctgaag      1680
ccaaagaaga actaaaggag tccaaaaagc ccaaaanaaa aaaaaaa                   1727
```


        <210> 5686
        <211> 818
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (337)...(279)
        <223> similar to gi4691243 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5686
```
aagaccacat ttccctcatc cctgtgtccc ttgcggcagt tgcctgaggt cagagggtac     60
agtggtcaac ctctgactga ccctctcatc tctctttgca gatctcataa gtgcagggga    120
aaggggtggg gcagcagctc ctatccttcc ctcccagccc tactccgggc ccggtcagct    180
cctggccact gtactcaccg aagctgtggc ccagaatgga gaatcgattc catttcaagg    240
ctggaaatgc aaggagccag aaggtccggc tgggcacagg ctcagcccac gatcttgctt    300
ctagtcccca ggctcaggaa atcccttccc agcatctggg gtgtccaccc aggagactag    360
cttgggggac ccactggagg aagcgaactc ttcaactttc ccaagatctc ccgtgaattg    420
ctggcagacc tggggccaga gcccaggccc cactctcagg ccagcgctgc ttcctggatc    480
ctaccccgcc tccagtgata agaggggtg ccctagagca ccccccacac cgccgaaaat      540
acacactctg tttcttacct gccacaactc ttcggatctc actcacaaaa gtctggaggt    600
aatatgggac acctgggctg taatgggacg agagcccatg acctccgaaa tccatggcaa    660
cgtaataaaa gtctgattca gtgaataaaa cctaatgcct cccggaaata aaaaaataat    720
actgcctaaa cctcccgggc cgcttgttat aaaggggccc atcaacaccc ccaaataacc    780
tttgtttgtc tattatagat cccaacctt tatgtttg                             818
```


        <210> 5687
        <211> 1836
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1786)...(0)
        <223> similar to gi1006659 in the genepept database release 114,
```

<400> 5687
```
tttttttttt ttgaaggaaa ggaactttca atgagaaatc aaaacacagg ggaaccaaag      60
tgcaaatcat ccacccccca tggggggggcc aatcctgaac cccacatcat cccctcagcc     120
cccttcaggc ccccagcgca ggcccagggc tcggatgctt ctgcctcagg tagctcttga     180
gctgggggca ggccctctct gggacctcca gtttcttaga aaggtagacg gcagggagct     240
tgaagcccat tcagggccta gggtgccgtt ccctcagggg cccttcgagc ccagtcaggc     300
acccgggccg tcccggcagt aaatgcccag ccgttcccgc aacaccagca ccaccctctg     360
ggcaagggtc tcgagtagtg gcgctagagg cagcctgggc cctgtgggca ggacccttgg     420
tgggtatggc aggaaggggt cctgggtcct cacgggaagc acagcaccag agctgctggc     480
gcacagcagg aagtctgtgc agtagcctgg aggcacagtc aggtcctggc ggtatttctc     540
ctcccccagc agctggcgca acccctcagc tactatgtcc ttgtgactgt acttgcagcg     600
ggcacggtcg gtgatgagag gctgggggaaa gatgggcact tgctgccttc ggggaaggcg     660
gggaccccgg tatcctggga gctccagctc cacggccgtg tccagcaggg agaggtagcg     720
acgcacaatc agagcatgag gggtgccact gatgtagttg atgaagccag gggaaaaaac     780
aaagtgcagg gctctgaagg gcaggcaccg cagttggcac agtgacatca agatgttgac     840
tgtagccagg ggtgccaccc ctgcttcccg agccaggatc ctctcaaggc agggcataaa     900
ctgctgttcc aggggcaggt agttcagtcg cccaaagggc aggaccaact tctgtaccac     960
cttgctgctg agttgcgttt cctgaaccac caggaagtgg gcaatggctt ccagaagctg    1020
gggctcccgc aaccggtgcc gggccaggtg ctgggccagg agcaccatca cgtgggggagt    1080
cagttcctct ggccttgcct ctgccaggct gctgatcaga tgctgccgtg gataccgcag    1140
aaaacggggg cagcttagag cagcttccaa cccttgccca cctcggagaa ggggctgcaa    1200
aggggggaggt ggcttcggag ggaggcggag ccttcgctcc tgttccaggg cacacaccag    1260
gggaccatca gatggaaagc caagtaagac tgcaaggtgc agacacacgt ggatggtgtg    1320
aatgtcaaag gaggggcagt ttcggatgat gagctgactc aagtcctgca gtgtgacctg    1380
ctccacagga gggggccgtg gccgagaccc caagagctgg cccagacgac gaagcgccac    1440
cgagtagtgg tgggcgcgca ccttgctggg gttctggccc agccagcgca gcagctcccc    1500
agggctcttc gcctgttcca gaagccgctg cagtccttgc acaggacctg cactggggcc    1560
tcctccaaca ggccggtccc cccatttgct gggccccaaa cagcagggct gtactggagg    1620
gatcagcagc aggccagaca gccgagcagg ggaggtctga gcagagagca ggactcgaag    1680
catggagttg ggtgatggag accatgactc cccgggccct gcgcaggtcg ctccctcagt    1740
cggtctcggg gcccgggggc cgggttcccc ccgcggcctc ctcatcggct agccaccgag    1800
tccgccatct tcccccctcgt gccgaattcg aatcga                             1836
```

<210> 5688
<211> 1450
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (667)...(1239)
<223> similar to gi4826524 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5688

```
ccactctgct cagctccgct ccaggaaggc cacctcctcc tccccctcct cctcccgctg     60
tcaccactca ccgctcataa cctcaagggg gtggggaccc cagggctgga cacaccccac    120
cgtggcccca gagctcagcc ggtcgcacgg acggacagtt ggaagccgga ccccagagcc    180
tgaggtgggc agtgtgccag ggtcccttgc ggcctcctca agccctgtcc aggctatggg    240
catcaagaca gcattgccgg cggctgagct gggcctctac tctctggtgc tgagtggggc    300
cctggcctat gctggccggg gcctccttga ggcttcacaa gatggggccc acaggaaggc    360
cttccgggag tctgtgcgac ctggctggga gtacattggc cggaagatgg atgtggctga    420
cttcgagtgg gtgatgtggt tcacctcctt tcgcaacgtc atcatctttg ccctctccgg    480
acatgtgctg tttgctaaac tctgcacgat ggttgcccca aagctccgct cctggatgta    540
tgctgtgtac ggggccttgg ctgtgatggg cacaatgggc ccttggtacc tgctgctgct    600
gcttggtcac tgtgtgggcc tctatgtggc ctcgcttttg ggccagccct ggctctgtct    660
tggccttggc ttggccagcc tggcctcctt caagatggac cccctaatct cttggcagag    720
cgggtttgta acaggcactt ttgatcttca agaggtgctg tttcatgggg gcagcagctt    780
cacagtgctg cgttgcacca gctttgcact ggagagctgt gcccaccctg accgccacta    840
ctccttagct gacctgctca agtacaactt ctacctgccc ttcttcttct tcgggcccat    900
catgaccttt gatcgcttcc atgctcaggt gagccaggtg gagccagtga gacgcgaggg    960
tgagctgtgg cacatccgag cccaggcagg cctaagcgtg gtggccatca tggccgtcga   1020
catcttcttt cacttcttct acatcctcac tatccccagc gacctcaagt tcgccaaccg   1080
cctcccagac agtgccctcg ctggcctagc ctattcaaac ctggtgtatg actgggtgaa   1140
ggcggccgtc tctctttggtg ttgtcaacac tgtggcatgc ctcgaccacc tggacccacc   1200
ccagcctccc aagtgcatca ccgcactcta cgtctttgcg gaaacgcact ttgaccgtgg   1260
catcaacgac tggctttgca agtgagtagg agtggggtgg gggtggtcac agccatcttg   1320
ccaggtgtct gagcagggca gtgccaagat gggtccacat tttaaaagat cacccctggg   1380
ccaggggaag caaagagggc agtgaggagg tatttgcaga gggtctggtg aaagatatag   1440
aagttaggac                                                          1450
```

<210> 5689
<211> 1883
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1884)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1113)...(971)
<223> similar to gi4335756 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5689
```
actcaccaac cctcccctc caaccagaga aactcactgc agtatctcct tgaaagtctg     60
gtgacgtgtc tgtctaagtg ctggtgagag gcacaggacc aactgagggc ctcacgcagt    120
accctggcc acagggtgcc cgcctaagcc cacacctgct gactgcaaca agcccatggc    180
caggacggaa cacagagaag ggtctgaggc ctggagcgcg ccatgaaggc catggggcaa    240
gtgaggtctg ctgagatagc gcaggtctgc ggagctgaag tgcagctgca gaggctggtc    300
tggtgctgcg agaactggaa gaagctggga gctgtggtcc ctgtccacag agatgctgga    360
aactgtggct gggagtggct ctgaggccgt ggagagagag catctctgcc ccacggcatc    420
```

```
tgcgggtgag ggcaaggtcc tcaccagaca agtgcagctc caagtcccag atgttgggct      480
ttttcttggt actgagacag cagtggggca gggtgggggca gtggcaggaa ggcagggagc      540
ctctcttgct acctcttctc catgctctgc atctgcagac tgagggaggt gaagctggcc      600
aggaggtcag tcacttcatc cacctgctct ttggtactgg tcatctgcag gcgggtgcag      660
aggtcatcca ggcgttctcg ctgctcatgt tgccctaggc gctccagata ctccctcagc      720
atatggatga tctgcttcac ctccagacgc acagccttta ggcactgggc atggccctcc      780
tgcaggatat tcagctttga cttggccagg tgcaggggtg tgcgaccagc tcggtccagg      840
gcatctacac gggcccctcc tcgtagcagt gtggtgatga caggaacgtg gttggtgcag      900
gccgccaggt gcagtggcgt gttccccagc ccatctcgct ggttaggatc agcaccatgg      960
tccaggagca gctgcacaat ctggtcattg ccattgcatg aggcaaagtg tagagctgtg     1020
cggcccttgt catcagctgc acagggatcc gcgccatctt ccagcagctg ctgcactgtt     1080
tccacatcat tggcattggc cgagtccctc agtctcttca gagcgtgcac ctccttgccc     1140
gtgggaggat gcatttcctg gctctgaggt ggcctggact ctgtggcttg agctgccctc     1200
ctcaactcca gtttcctgct ccatcgctac acctccaacc tcctctcccg tcacctgctc     1260
ttctgttata cagacccggg tgaggacatc aagccctcct gaacaagctg ggataatctt     1320
cctggcgaaa gatccttaac ttcattacat ctgcaaagcc cctttgggcc atacaaggta     1380
attttgacag gttcctggga ttaggacatg ggcatcttgg gaggccacta ctggcctacc     1440
acaactgggg gnagcaaaac taattacacc ctccggtata atagttttttg gtgtttcaat     1500
gactgggagg aaaaggggtt ggaatttttt ttgctttggg ggtccctctt aaccttgtat     1560
tttttaaggtc tgggactcac caaccccttc cccttccaac cagagaaaac tcactgcagt     1620
atctccttga aagtctggtg acgtgtctgt ctaagtgctg gtgagaggca caggaccaac     1680
tgagggcctc acgcagtacc cctgggagtg gcttcttgag gccgtggaga gagagcatct     1740
ctccccacgg catctgcggg tgagggcaag gtcctcacca gacaagtgca gctccaagtc     1800
ccagatgttg ggctttttct tggtactgag acagcagtgg ggcaggacgg aacacagaga     1860
agggtctgag gcctggagcg cgc                                             1883



        <210> 5690
        <211> 1633
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (591)...(1277)
        <223> similar to gi3874290 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 5690
ggataaacat ctgtagcacg cttacgccaa gcttggcacg aggggagatt gacgcggcag       60
tgcacacctg ctggtacgag caaaagtagc cgacaggcca gagtttccag tttcggtggc      120
ttcgtaggct tttagcttct gaaatccgct aaaagcggcg gttcattcat cttcaagtac      180
ctagcctgac tggtagggct gctcagcatt ccgaaacatt tcgacctggg gagggggggcg      240
gcggtgaaag aatactttct gtagagagtg cccctcgcgt cgcccctgct ttgaaggctt      300
tatgtattaa cggaatgccg aacatttgtg tcctacttgc tgacagcgca caggatcctt      360
ctaacagtat ttctcaagta cttaacaaaa agatgaaaac ttgaagtcca agccgtgctg      420
ctgattccgt ctcacagttt aaagactgtc cagaaacttt aagctttcaa aactgtacat      480
tttaaaatcc tgtgcgttta tcttcatttt gctgggcaga aagccaaagt actggactgc      540
ctggttcagg gctgaacgcc tagtacacct gctaacttgg agcttcagag ccatggcaac      600
caaggagtca agagacgcca aagcacagtt ggccctctcc tcatcggcca atcagagcaa      660
ggaagtgcct gaaaacccaa actatgctct caaatgtact cttgtgggac acacggaagc      720
```

```
agtgtcatca gttaagttta gtcctaatgg agaatggcta gcaagttctt ctgctgatag      780
gctaatcata atttggggag catatgatgg aaaatatgag aaaacactct atggtcataa      840
tttggaaata tcggatgttg cctggtcatc agattccagt cgtcttgttt ctgcctcaga      900
tgataaaact ctaaaattat gggatgtgag atctggaaaa tgtttgaaaa cactgaaggg      960
gcacagtaat tatgtctttc gttgtaactt caatagcatg tatattttac acactttcat     1020
gaccattaat catctcctaa aactggggaa agctctctaa aacctcttaa gagtaacctt     1080
atccgttacc ctattccacc aacctctttg tccttttctg tttcaagcaa ctttgagata     1140
ccgacttctc tatggaagct taagccgtag atgctaaaac aaacgtttgc tcgttactcc     1200
cagcagagca ccggctttta aaggacctca acagacacgt ttcttaacct ttacgaaact     1260
tttccagggg aaacttaaac caggaatttt acaatctggc ataaattctg tcacccgccc     1320
cgtgactcca tcgccacaca tgccacctgg ctccacacca caacaaacag gagggagcgg     1380
aacccatgca aagcaggagc ttcccccgtt tccggcgtct gggtggatct acgttagctg     1440
ccgtttaggc agcttacgcg tcaggtgtgg gcctacgcct gcagctaagg taggcatccg     1500
caaatctagt ccttctctgt gacaatttcc aaaaagaaat ggttttgaa acaacgatcc     1560
actgcttccc acactatcca gttaggtccg ggacagaccc tacccagcta atgcactcac     1620
ccaagaaggc agt                                                       1633
```

```
          <210> 5691
          <211> 821
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (649)...(776)
          <223> similar to gi9453 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters



          <400> 5691
ggcctctccg gaagcctgtg gcattcctgg cacctccaag ccatctgctc ttcagcctct       60
gggcccagga ctagactagt gctaaaatag ctgctcctgg gaggggctgg accccccaccg      120
tgggcagaga gggcctctgc tttttggggc aggaggggcc accctggcag ggtaaaaaga      180
gataaacaga aaaacaacag caacaataat agtaacaatc cggggttgtt gccatggggc      240
ctgttctgaa caggctgcgc ccagctcact gcgaggaagg acgcttagcc aggccctggc      300
tgaagcctgc agctgggctg gacacagcag tcattggcct gtgttgtggg ggacttgggc      360
ctgccatggc tgcagtgggg accctgcctg agacagacag agctggggtg gtgaccaaca      420
ccgtcggggc accctcgcag gaactgggcc tggtgaactg cccagggacg gggaaggagc      480
agggtgaggc atggggaccc cgacacaggt tgagcagcgg gagaggaggc tgaggagggg      540
aaggaggggg cccgcagagt agcccccaga ccccaagtcc ggtcagggac aagcttgtta      600
gctccaggtt catgtcacaa cctgcagggc tcctaagttc aagctttttt aaacttaatg      660
ggcaaactga gacgcaacac aaataggctt ctgaccttgg tgtctgagtc ctggatctga      720
agtccttcac ggcactcact gtgagcccct cttagacgca ctgcacgaag tgagcttgcc      780
agctcttcct ttaagaaacg tgttaggccg ggcgcggtgg g                         821



          <210> 5692
          <211> 2245
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (182)...(1677)
<223> similar to gi3881161 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5692
```
aacttccgtg tcgacgatcc cgcggggctt ggcctctgcc cggccacaga gccggagctg        60
gaggtgctgt cccgtctggc ggcgatcccc gggcagggcc cggggccggg gtttgaagat       120
gctgaacgtc ccttcccagt ctttcccggc ccccaggtcg cagcagcgtg tcgcctccgg       180
ggggcgtagc aaggtacctt taaaacaggg cagaagcctt atggattgga ttcgactgac       240
caaaagtgga aaggatctaa cgggattaaa aggcaggtta attgaagtaa ctgaagaaga       300
acttaagaaa cacaacaaaa aagatgattg ttggatatgc ataagaggtt tcgtttataa       360
tgtcagccct tatatggagt atcatcctgg tggagaagat gaactaatga gagcagcagg       420
atcagatggt actgaacttt ttgatcaggt tcatcgttgg gtcaattatg aatccatgct       480
gaaagaatgc ctggttggca gaatggccat taaacctgct gttctgaaag actatcgtga       540
ggaggaaaag aaagtcttaa atggcatgct tcccaagagc caagtgacag atacacttgc       600
caaagaaggt cctagttatc caagctatga ttggttccaa acagactctt tagtcaccat       660
tggcatatat actaaacaga aggatatcaa tttagactca ataatagttg atcatcagaa       720
tgattccttt acagcagaaa caattattaa ggattgctta tatcttatac atattgggct       780
aagccatgag gttcaggaag attttctgt gcgggttgtt gagagtgtgg gaaaaataga       840
gattgttcta caaaaaaaag agaatacttc ttgggacttt cttggccatc ccctgaagaa       900
tcataattca cttattccaa ggaaagatac aggtttgtac tacagaaagt gccagttaat       960
ttccaaggaa gatgttactc atgatacgag gcttttctgt ttgatgctgc caccaagcac      1020
tcatcttcaa gtgcccattg ggcaacatgt ttacctcaag ctacctatta caggtacaga      1080
aatagtaaag ccatatacac ctgtatctgg ttccttactc tcagagttca aggaaccagt      1140
tcttcccaac aataaataca tctactttt gataaaaatc tatcccactg gactcttcac      1200
accagagctt gatcgtcttc agattggaga ttttgtttct gtaagcagtc ctgagggcaa      1260
ttttaaaata tccaagttcc aagaattaga agatctcttt ttgttggcag ctggaacagg      1320
cttcacacca atggttaaaa tactgaatta tgctttgact gatatacocca gtctcaggaa      1380
agtgaagctg atgttcttca ataaaacaga agatgatata atttggagaa gccaattgga      1440
gaaattagca tttaaagata aaagactgga tgttgaattt gttctctcag cacctatttc      1500
tgaatggaat ggcaaacagg gacatatttc accagctctt ctttctgaat ttttgaaaag      1560
aaatttggac aaatccaaag ttctcgtctg catttgtgga ccagtgccat ttacagaaca      1620
aggagtaagg ttgctgcatg atctcaactt ttccaaaaat gagatccata gttttacagc      1680
ataatgaaga gctgtcattg tcctttattc aactagttta tctaaatttg tgattgctta      1740
gggttttta agagaacatt tttgtacata acaaaaggtt aactagaatc cagccttcag      1800
tttcttaaat gaaatcaaat gttccttcag tacagggtaa cttcttgggc tttctttttgg      1860
taccacaact tatttttact actgatattt gacccgggaa agttaatcat ggcaacaaat      1920
acatacagga ttctttgtta tgaatcacaa atttccttgc catttaaatt atatcactgt      1980
tctacaataa gcacttgtgt tttatgacat gataaagtaa atgatcactt cgatcatgtt      2040
tctatgctgt aaaatgtctt attagcaata cagattaaat tttaccttgc actgttaact      2100
caggaaatga tcatttatgt ccttgttatt aatgttaaaa catagaatgt tataacttat      2160
taagtgatcc aaacattttt ttgtgtgtgt atggcattga tgcagaatag aataaaatta      2220
tacttaagtt cttttttaaaa aaaaa                                            2245
```

<210> 5693

<211> 630
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(631)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (361)...(110)
<223> similar to gi1345538 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5693
tttttttttt tttcctagag aagagacgaa ggtgattcag ggccgagcag ggctccctgg   60
gaagcccct cttcctgccc caactttatt ttggttctag aatcattcca gttggcatac   120
ccggtcccca ccacggctgt cctgggcaca cagttaacat gtcatgcagt tagggggagg   180
gagagagggg agagggcagg gggggagtca gtggcctgca ccgcacagcc actgggttag   240
agaaagtcgg ggtctcccag gctgcaaagc cttgtccagc catgtgtctc ctggccctgg   300
gctgacctcc tgctgtggcc atagggtaga cagcctggcc ttggggctgg gccatggctg   360
tgtcaggtag ggaaagccac catcctgcct ccagtcccct gggcccttgt tctagcccct   420
cctcccccca tatcactggg gataatttgt tggcctgggt ctccatagct caccagttat   480
ggaccaagga acaggggcag ccagcctgag ggtccatgct gtcacctgtg ggtggcccca   540
ccgagcagat gatcggacgc ctttcgaccg gnattccnnc cngncgncnt cgaggatctc   600
agggctcagg nnnncggccc ccgttccccc   630

<210> 5694
<211> 2069
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (325)...(1347)
<223> similar to gi4104615 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5694
caaggagcac aggtcctcgt tcaggacgat gtaatccttg ccatcgtaag caagctggtg   60
atacccgcgg agtaggcgcc cgtccgaccc cacgtcgcag acagacatcc tctagatggg   120
tgtgagaccc tggccccgcc cccgcggcca gccccgccca ccgagccccg ccctcgccag   180
gaccaacctg cggggatttt ggctgaaaat gaaaccgggt aacggctcct gggcctctcc   240
cgggtcaagg gtctccacgg tcccgctgcc tcggcgtgga tctcggaccc agagactcgg   300
ggagacccgg gcggtccgtg ggggatgtgg aggggtagtg acctgcgccc ccggccggtg   360
tcactcacag gcctcactct ggtttgtaag taagccgctc agggtccgca agtttcactc   420

```
ggtaaaactg tgctttggcc ttggcggttc cctgtctcct tcttcccaat attccggccc      480
ctcctgctcc atccacggcg cccgcggctc catcctggga ctcgtggcgt cgctgtcgag      540
ccgcacgcac tgcgtgtcgt ccacgtcgcc cacggagagg aagcgggat ccgcgcggcc      600
gggccgggac atggtggtgt ggaaatacct caaggagtgg aagcctggga gcaaggaggg      660
ggctgagacc ctcccgaccc tcctcccggc accgcaaccg ggttcctgcg ccccgccgg      720
gcaggcccct agctactccc cacagacgcc gtttccctcc cgaccccgca ctcacctgcc      780
caggtctggg tcaggaccag ggcccccgag agcagcagaa gcagggttcg gggcgccatg      840
acaccatcct cggcgactgg ggagaatcgg agtcccggtg ggtgcgtggg aactttagaa      900
ccgggaccgc ggctacattg attggcttct ctaggaaccc gacactcaat gggagtgaga      960
actggggcag cctggtgagt atccaggaag aaggacccga cacaggttgg gagagggaga     1020
agagaaaccc tgcggagatg gggaatcccc agcgctgggc ctccccaatc catacaccgc     1080
ctttgggggcc tgagatcctg agagccatgc ctgaggccct gagagccatg cctgaggccc     1140
tgggacttcg ccctgacccc gctacttctg tgccaagcgc tctgtctcaa cgtttccgag     1200
tcttggccca ggagctgtct gagaaaccag ggagaaaccc tcggaatggg ccccgtccct     1260
ctctcttcac tttgcatcac ggaatccccg tcccagaact ggactccctg cctcctactc     1320
cttacctgtc cccgtggact cttctagaag aaaaatcacc ccagggagct tgttgccaga     1380
gagtgagctt gccctgggaa tggaggtgta gagacaggt tttttgttgt tgttgtttgt     1440
ttgtttttta aatctggaaa agttgtgcct gagtgcatga gatagaatag agaccagttt     1500
gcttttgtt tattaactac agtgggtagc agaatcttgg taactcctaa tgatcaggaa     1560
tctaatcggc caaaaatgtg actttggtcc cttgacatat aaatgtgtct aaaagcatta     1620
caacaggaat cacaaagctc ctaagtttca cttttcccaga caatgtatct gtgactcccg     1680
cttgtagtat tttaaattta ccttcattcc atagccctgg agtttctgtg tgagtccagg     1740
acatctccta atacaaggta gccactgtgt tactatatgt tgtaaccagg agccagtacg     1800
gactttattc atctcacagt ggcaagcact caatgcagtc acaatgcccc tcaccagtgc     1860
tcatgcactg cctgtttta ggaagtatcc acttctaagt gttgtgtata ttttatatga     1920
acacttagta ttttttaaac ctgattaaca taaaaaaatt agtttttagg cagacccaca     1980
taaggtatta aaggccaact gcaaagatca ccctgcaagg ctctgtagat tgatgtatta     2040
aaatatataa aacaatgtgt ttaaacctg                                       2069
```

<210> 5695
<211> 1089
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (636)...(932)
<223> similar to gi1255991 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5695
```
taattgaaat cgtacagcgt tgcggaattc gcaggattaa tcacataagg agactgtttc       60
atgcttgagg taaggagtgc ttagataaag tgagagaaat gggaatagaa agataggcac      120
atacattttc caagaaagaa tgatctgaat tgagttattg attgaataca ggatataaag      180
aagaaagtaa caaagaggac tgagtttttc aaccatgaca cctggaagga aaaatagcag      240
agacagggaa aagagacaga gacaaggaaa aaaaaagaga cagagacaag aaaaccattt      300
agggaataaa gtcttaagtc tggttttgga catattgagc tggagtagat ggcataaaat      360
ctatcctcaa ggaaaagtga ctgttcttga acacagggag ccgtcctgat ctgtcatcct      420
tcttgaatct gtctagtgct gaaagtactt actactggac cctgtttct ctgagcagta      480
taatatggct tctttactat taatctaaat ttgggctaat tttatatatt tttcaaaagg      540
```

4230

```
cattgatttt ttaaagagtt ttttaatcat taattcactc tggtaatata agtaatacct    600
ttatatagtc atctaaactt tccaaagcac ttttacctat tattctcaga acagtccagg    660
aaagtaggca aaacagacat tatcaccatt ttatgaggta ctggatgcta aatgacttgc    720
tcagcgtctc ataactggta agtagcagga tcaggtctga aatccatttc acctggcctt    780
agatccatct ttgagggtct ctttatctga taggcttctc gtcttggata ggcaaaggaa    840
ggatgaactg gagcagagga tgtcggccct gcaggagagc aggcgggagc tgatggtcca    900
gctggaagag ctgatgaagt tgctgaaggt aagagcccgt ggcccacgct cagttcttgt    960
cattcttctc ccaccacagc ctcagctgct gcctccagta aattttcatg ccacagagag   1020
ttctttcatt ctgctgcttc aggaaactat tatgtacttt atcttctatc cattcctgag   1080
acttcctag                                                          1089
```

<210> 5696
<211> 1596
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1392)...(946)
<223> similar to gi5102729 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5696
```
ctccggcggc gcgtcccccg agcttggtac ggctcagccc gtctcccccg aagccgcgcg     60
cccgcgcccg cgcccctcag tcggtggagc ccgcagcccc ccttgtggcc cgcggcagct    120
ccccgcccgc tcggcccgcg cccgccatgg tccgtccgcg ccgtgccccg taccgctccg    180
gcgccggggg ccccctcggg ggtcgcgggc gccctccgcg gcccctcgtg gtgcgcgccg    240
tccgctcgcg ctcctggcct gccagccccc gaggcccgca gcctccgcgg gatccgggcc    300
cgctcggccc ctcccatgga aggtgctcgg gtcttcgggg cactgggtcc catcggtccc    360
tcctcacctg ggctcaccct cgggggtctg gccgtgagcg agcaccggct cagcaacaag    420
ctgctggctt ggagcggcgt cctcgagtgg caggagaagc gcagacccta ctctgactcc    480
actgcaaagc tgaagcggac cctgccctgc caagcctacg tgaaccaagg cgagaacctg    540
gagaccgacc agtggccgca gaagctgatc atgcagctga tccctcagca gctgctgacc    600
accctgggcc ccctgttccg gaactcccag ttggcacagt tccacttcac caacagagac    660
tgcgactcgc tcaaggggct ctgccgcatc atgggcaacg gcttcgcggg ctgcatgctg    720
ttcccccaca tctccccctg tgaggtgcgc gtgctcatgc tcctgtactc gtccaagaag    780
aagatcttca tgggcctcat cccctacgac cagagcggct tcgtcagtgc catccggcag    840
gtcatcacca cccgcaagca ggcagtggga cctggtggtg tcaactcagg cccagtccag    900
atcgtcaaca caagtttct ggcatggagt ggtgtcatgg agtggcagga gcccaggcct    960
gagcccaaca gtcggtccaa gaggtggctg ccatcccacg tctacgtgaa ccaggggag   1020
atcctgagga ccgagcagtg gccaaggaag ctgtacatgc agctcatccc gcagcagctg   1080
ctgaccaccc tagtgccgct gttccggaac tcgcgcctgg tccagttcca cttcaccaag   1140
gacctggaga cactgaagag cctgtgccgg atcatggaca atggcttcgc cggctgcgtg   1200
cactttcct acaaagcatc gtgtgagatc cgcgtgctta tgctcctgta ctcttcagag   1260
aagaaaatct tcattggcct catcccccat gaccagggca actttgtcaa cggcatccgg   1320
cgtgtcattg ccaaccagca gcaggtcctg cagcggaacc tggagcagga gcaacagcaa   1380
cgagggatgg ggggtagtg gttaccccgg gctgggcccc tccaggagtc acagatgagg   1440
cccccgcaga gactggtgac acgcttctga gcaggggccc ctggggactt caactgccca   1500
gcaacatgga ggatggtgtc ctgaggcctc caaggacggt ccccacccct ctacgtttcc   1560
ccaataaagc cttttaaaaa cctgccaaaa aaaaaa                             1596
```

4231

<210> 5697
<211> 3681
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (936)...(2673)
<223> similar to gi|196425 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5697
```
cacttctgta atatgcttcc ccctgaacag atctctccct cccccctctc cacccccaaa     60
atgcttaaaa ggtaacctga ctctttgttc tgggctcagt cctttggata ttaatctgac    120
tgggttggct ggtgcaccta aataatacat atatcctcct caaccccatc ggtctctctg    180
attcctaaat catccccaaa catttctggt ggcccatatg gggattggag ataacagatt    240
tactgtctcc tttgcccatg ggactagggc cctggggctg tggaagacct ggcatccaag    300
gcatgccatg ggggagtttc acccggatgg agactggctc tccccgcatc ctgcccagca    360
gtgcaactga acctgagatg gggctgcagg atgacaccag cacttcagga accgcggtgt    420
cacaccttgg attcaccata gctggctgaa actagcagca gcagtgactc ccgactatga    480
ccagtggatt aaccaacaag accctgattg ccccacccga atagacctac ggcgaatccc    540
aaccaccagt aagaaggaca actgccctgc tctgaccaca ctggaggctg gtcagtctac    600
acatggctga agcttgaaga tcttgcaagc tcttgctctt agtcacatcc tggaagctga    660
ctagtctaca cacagccgaa gctaagagga ccatctctag ataagtaaat gtagataaaa    720
tttataagcc tagttataat tgttctgttg ttacattatt actgcaaatg ctgcaaatgt    780
ccatgcccag aggaaggttt gccattcctg tgtgtagtgt aagcatgttt ctattacata    840
cactaatgtt gttaccattt ctgcctatac tagaagggga gaaatctcta gaaggatgcc    900
cacactgtgt acatactacc tgggtaagga ataccatagt taaaactcta ctgtaccata    960
cctacagtac aggaaccaag ttaggaacct gcacatacaa ccagaccacc tattcggtct   1020
gtgacccagg aaataatcag ctatatgtat gttatgaccc taagctctta ccctatgaat   1080
tctggtttga aatacatatt aaatcagagg gagaaaaaga aggagagtta tagctcgaac   1140
aaaagaagcc cctccctcct gtaaagggcc tatttccttg tactttgatg cctgctatgc   1200
tgcatatgtt cacaatccta aaaaaaaacc agaagccagt ctgcaatggt gtaacacaag   1260
agaggcttag caggagcagc cctaagcatc tgtacaaaga accacaaatc ggatgcccag   1320
actgtaacat tcagtggtcc acactaacac aactccaata tttatattca ggaaggagtg   1380
ctctgctaag tagtatgtta accaaaccaa actgtaagac aagaacatgc aatcctttac   1440
attttactat cttaaagcca gagatacctt tctggtctac aggacagaca gcactataac   1500
gacttgatag actaggagca ggccttggag ttccactact aattgtcaaa aagactaaaa   1560
ggactcaaat gcatccaacc ccgcaattct gggtccataa tcattctata agcatttgga   1620
taagccagtg cctgagcttc ccccaccaac caaaaactta tttgctcaac tagctgaaaa   1680
catagctggc agcttaggaa tttcctcatg ctatgtacgt ggaggaacta atatggggaa   1740
ccagtggcca tgggaggcaa aggaattaat gccacaagat aacttcactt cgcttaaccc   1800
tgccagtgaa ccaacagcct cagccagtgt ttggttgtta aaaacctcca taattggaaa   1860
gtaccgtatc gccgttggga aaggctttca cagaggcagt aggagaaata acctgcctag   1920
gcaacagtat tatgatgaga ctaaaaacaa aactctatgg agaagcaccc agaattactc   1980
ctacttacca gatccaaatc ctttatctcc attctctacc ctaagccaca cttggcatca   2040
actagaggtt ccaaatgctt cgaaagcacc ctctggccta tattggatct gtggagcatg   2100
ggcatattgg caactgccag ctaaatggac aggagcatgt gtgtagtaac aatcaagcca   2160
ttcttctttc taattcctct aaagcaaggg gaactcttat ggtatccagt tgatgatgaa   2220
```

```
aataaaagaa gaactagaag agcataatca caaaaataga cacaaatgtc aaaaaggatg    2280
tggacatagg agactggaaa gataatgaat ggcctcctga aagaataatt aaatattatt    2340
ggccagctac ctgggtgcaa gatgggtcat ggggttacca caccccaatc tatatgctca    2400
actgcatcat aaggttgcag gcagtctttg aaattataac caatgaaaca tcaagggcac    2460
tagatttatt ggcaatacaa gcaacacaaa tgagaaatgc tatatattga aatagattgg    2520
cattagatta tcacttagcc tctgaaggaa gagtatgtgg aaaatttaat ttaaccaact    2580
gttgcctaga aattgctaat aatggccggg ttgtcatgga aatcagagct agaatgcaca    2640
agttggccca tgttccaatt cagacttggt cctaatggtc cctggattct ttgtttggag    2700
gatggttctc aacctttgga ggattcaaaa ccctcactgg tgggtttttg tttattcttg    2760
gcatctgcct catcctccct tacctttttac ccctgtttat taggaggatt cagtcaacta    2820
tagaggcagt aataactcaa cacactaccg cacagttgat ggcattaacc aaatatcagc    2880
cactgccagt agaagaagct cagctctgtg aagaggtggc aaatagtggt gctttctatt    2940
aacacctttg ttataaaaag caacaaaggg gggaaatgga acaggaatta aaagaaatta    3000
aagaatgcat aagcaaaaac tcaattgtat gtagggaaac ccaattcctc ctgaggaaga    3060
gaaagaggtg gagtccttta aaaattcact gcctgttttt ccgtctgtag ctagtgagcc    3120
ttatctctcc ctttcccagg cattgtgaag accctgtttc tccagctgtg cagctgcatg    3180
gtcactagac agataaactc aagttgtaaa acatgttttt ccttgaaaag taagaaatga    3240
tgtaatacat gtctcaactg aataactgtc tttgtttctc acttctgtag taagcttccc    3300
cctgcacaga tctcccctct caccccatga aatgcttaaa aggtaacctg actctttgtt    3360
cagggctcag tcctttggat gttaatctga ctgggctggt gcacctaaat aataaatatc    3420
tccctgaact ccatcagtct ctctgattcc ttaaaaatcc cgctacattt tgtgtaatga    3480
actggcaaca agagaaagtt ggtcgaagaa aggcagagga actgtgtctt gtaagaatta    3540
gaatcgaggg gctccataat catctggcat ccgttcaatg ttgtatctat ggttagaaat    3600
gtacatgata ggaactccag gaatcttacg gattcttctt ttcaggtccc ggtcaactgt    3660
ggccacaatg taacactttc c                                              3681
```

<210> 5698
<211> 2004
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (86)...(933)
<223> similar to gi2072957 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5698
```
agttttcaac gtctatttca ttccctgctt cagaggacct ctttaatctt tgattttggt      60
ccctgtttct aagaaaagca actgaaaagg tcgtaatacc gcccctgaga aaaaaggagc     120
agcgctaaat aatcgagaaa atgcctcctc ttgaaacgga tatagagatg gaaacaagat     180
ataagaagga ttgagaatca tataatacag gagcttaaac acctatgcgc gatgataaag     240
agggtactat tagagcgctt ggaaaatacc aggaagttga gagagttaac agaagggcgc     300
acgctggatt ggccacaaaa tcgaattact gaagtaagtg caaaacgaca aattgtcaca     360
gaatacagag aaaaggggaa aagaaattaa gaggagaaaa agagagatct agagggccgg     420
tccaggagat acaatctatg cataatagga atacctgaaa ctgaggacag agcaagtgga     480
gctgaaacaa taaaggatct acttgaaaaa attttccaga attgaagaac gaactagatc     540
tacaaatgga aaaggctcat aggatacctt taaagtttaa tgaaagaaa gcagcatcta     600
gacatatccg ggtgacgttt ttgaatttca aagacgaaac attttacaag catccagtca     660
gagaaagcag gttacttaca aaggggcaaa agtcaggctg acctcagatt tttctcctgc     720
```

                                   4233
```

```
aattctaaat gccagaagac agtggaacaa tatctagagt gttaagggaa aataattttg    780
agccaagaat tatatactct gccaagttat catttcttta caaaggaaac tggaagacat    840
tcttagatat acaggggtta ggaaagtata tcaaccaaga actttccctg aaaattttgc    900
tgaaggattt actgcagcta acagagaacc tgaattaaaa taagaatagg gaggcaattg    960
tatgaaagaa ctgatggtat gcattaaaac tagttaagga gcattaagtt taaattgtta   1020
tgtatagggc attaaaacta aatacaaaaa tagaaacata agctgggtgt aaaatttcag   1080
tttacgttta aactggaagg gcataccaca tgttcaatat attggacaaa tactgtttta   1140
tttttagcat gtagtattgt agatacaaat acgcatgttc ttaagctaaa cctaagtaaa   1200
agggctttgt cactgtagat ttgacaaata acattctaaa tgtcaaatct gacaattgga   1260
aaacagtaca gttttatttc ccttattttt aagtatagca ggaaaaaaat aacaagtttg   1320
tccatgttac tactgatact gtaaagaaac ttccaaatca ctggtttggg aggggggtgga   1380
tacatcctca ttttctgtac atgatgcatg gggaaaaaca gtagttactg catcatatag   1440
ttccaagtaa atcatatagt tccaagtaaa tttgacatgg aaataagtgt taactacaaa   1500
aatagaatat atacattcca atgtttggaa aagaagtggt aaaaagaaaa atagcaaaaa   1560
gacactaaaa ttagcaaaaa gtagattgac agtacagatg acctataaac tggttaaata   1620
gccctattac aattgaaatt gggtcaaaaa tcaatctcta acctgagata catttgtata   1680
aaacaaatga tcaaagagtt taaagataat ggaaactata aatcatagaa atagcaacat   1740
ttttcttaaa atctaaacat aagacatttt atgtaaaaca tacaatatag gatgtaacat   1800
ttaacaaact atatggtaaa taatatgaca ttaatatata aaatatatgt tccagatctt   1860
gatgtgggtg atagttttac ttatgtacat cgatatacat ctatttaaaa acatgtacat   1920
ttaaattgtt gcattttatg tatttaaaat ttattgagta atccttctgt atgtattatt   1980
aaagagaata tagcaaaaaa aaaa                                         2004


         <210> 5699
         <211> 2789
         <212> DNA
         <213> Homo sapiens

         <220>
         <221> misc_feature
         <222> (545)...(2356)
         <223> similar to gi4959382 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



         <400> 5699
ctggggacgc taggttccgg aacctgacct gagctggggc ctgtgcttcc agcgggtggt     60
gggggggcctg gtgtgctggc atcaagtaag ccgactacct cggcaaaggc ttagggacaa    120
gagaccagca gcctgaactg gctggggcat ccggaaggct tagatcttgt ggccaagagt    180
tcagaccgtg gcgaagtgga gagtgacatg cagttggatg gcggtgactg cgtggtcctg    240
caaccctggt tccagtctgg caagcattgt agacctggct gctgaagact gacggggccc    300
agggtccgct gcccccaccg ccatcaccac ctcggaaccc agggtaacgc tgtcagtctt    360
tggaccaacc tcgctgtgcc taacaagaat tccagaagtc acccatccga aaggcactgg    420
cccatgacac tctccacttc caatcttaaa tcttttactt cataccttgt ctcagatctc    480
tcctggtacc ccttccccac gcccttagat aatccatctc aattcctcat gctaattgag    540
gagctatggc tgcaaggcac cttccaggat ttcacaccta cacaaatctc ctttttctcc    600
ttttgccttc tctgcttatg ggatattctg agtccccacc cccaatcact gacagctggg    660
ccccccttcat cagcctcaca caccacgtat taagtcagtc acaatctccc ctctcctcta    720
actgctggat ttgtctttct acacacaccc aatgattcac ggctcttccg gctgacctac    780
ttacatggac acagtccaac gtgagcttac acatttctta cttggctata ccattcttgg    840
ctgattcatt cctgaaaccg gttcataacc tggaaactca gctaaacacc tttccttcaa    900
```

```
actcagctct ctcagcatgg tttcaggtag ggctgttgcc ctccttcacc taatagcttc      960
tggactaaca tccatacaaa ccaacacagc atcatctaaa ccaccaatat gggggtacca     1020
tttctactca aacttccttc atatccccac cccccttatg tctcagccga acctaccta     1080
atccagccca cgccacaatg gtgggacagg ttccccagtc cctatgtggg cttattttta     1140
cccttgcact ccctgtagac catcaattct acaccctaat tacaaaatca tatccacctc     1200
tgcctggcag aaggtgttat gcttttctgg ctcgcctacc atccacacat ccctacacct     1260
caccaccgga tcctcttttc tttccttcca tccaattcct ggcttccccg ctgccaactc     1320
tgctctctat gtctccagtt taaaggggcc ccctggaaaa aatgtaacaa ttccctcacc     1380
tgtgactggt acctgacagc caccacaccg gggcagcaat ggctaacggt tgacaaagac     1440
aatttctttc tctctccaaa accaaacagc cttcatcaac tccctagcca agactccta     1500
tcaggccctt acaggtgccg ctctggctgg cagttaccca atttgggaaa acgaaaatac     1560
cctatcatgg ctacctacct tcacctacaa cttctgcctg tccaccccca gtctcttctt     1620
tttgtgtgat acaaactgat atctttgcct accagccaac tggtcaggaa cttgcaccct     1680
ggtctttcag gctccaacca tcaacatcct accccctaac caaactattc taatttctgt     1740
agaagcctct atctcctctt cacccataag aaataaatgg gctctacatc tcatcaccct     1800
gctaacagga ttaggcatca ctgctgcact tggcactgga atagcaggca taaccacctc     1860
aatcacctca taccaaacac tattcacaac cctttctaac accgtagaag atatgcacac     1920
ttccattacc agtctccaac gacaattaga cttcctcgtg ggagtcatcc ttcaaaactg     1980
gagagtcctg gacctcctaa ccactgagaa aggggggtacc tgcatatacc tccaggaaga     2040
atgctgtttc tgtgttaatg aatctggcat tgttcatatc gcagttcgta ggcttcatga     2100
cagggctgca gagctttgac atcaagtcgc tgactcctgg tggcaaggat catcccttct     2160
aagatggata ccctgggttg cccccttcct aggacccctg atcttcctct tcctgttact     2220
aatgattggg ccatgcatat ttaaccttgt atcccgcttc atttcccaaa ggctgaattg     2280
ttttatccag gcaagcatgc aaaaacacat tgataatata tttcaccttt gccacgtcta     2340
ataccagagc ctacgaggaa accattcgga agctccagaa cccaggccct aatcacaacg     2400
cccctatcca gcaggaagca gccagatgat caacgacgcc ctttttcctt tttatactaa     2460
agtaagaaat aagaatgtta gcccaaactg cactattttg cagacccta ccattttaca     2520
aactggtcag agtggaaaat tccaccaggg cctgagctgt gagaaacatc ctgtcaggca     2580
ggtcccaggc ctaacccctg gctgcactaa attccttcat tatcagcagc caaacacacc     2640
gcccccaccc cattttcaca acaatcccag acctctcctg cccgggactg taactggtcc     2700
agcctgtaag cgggaagggg gctctggcac tagctggtac cccctctccg caggtctttc     2760
tcccaataaa tctgtgttgc cattgaaaa                                      2789
```

<210> 5700
<211> 1726
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1162)...(774)
<223> similar to gi3002527 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5700
```
gagttttttt tttttttttt tttaaaatta agacaagttt attgagtaaa aaaatgcata      60
cattggaacg gcaaaacatc aataaggccc taaaacaaaa aatacagtta tgctttaaca     120
aattcttagc aatgtggccc acgctttta aaaaattgac gtgttggcag tgttggttag     180
gaacactgac gtacatccca aatagtaata aattcagtat gaaattatac gcataacctt     240
actcaccata ctactttttc tcccaaacta ttgtgacttc tttttgctct ctgattaaaa     300
```

4235

```
caaacaggta acatccttac acctttgctc catcccttgg gctttaaaaa gaatggctgt    360
agttagtttt gattcactat atactctctg tacttgagga agagtaagct gtgtttaaaa    420
gtgccctttt ccatgtcgtc atgtaccaat accctctgca tttcaaaatg ttgactcaga    480
tgtttttccc tctacagaac tagaaaattg tcccccccact ttggtctatt tactcatttg    540
aagacaaaca gggttactaa gagttttaca taagttattt ctttagagtg acgaagtgtt    600
agtttacttc ttgcttagtg gagacaaaaa ttgtgagata aagaggaagg aataggatgt    660
acacatttac ccatcaatat agcacccagt gttatttgag caggaccctt ctgttagcat    720
ctaaggtaag gttaggacag tcaagataaa atactggatg ttggccagga gcagtggctc    780
aagcctgtaa tcccagcact ttgggaggct gaggcaggca gatcatgagg tcaggagatc    840
aagaccatcc tggctaacac agtgaaaccc tgtctctact aaaaatacaa aaagttagtt    900
agttagttag ccaggcgtgg tggtgggtgc ctgtagtccc agccattcgg gaggttgagg    960
caggagaatg gtgtgaacct gggaggcaga gcttgcagtg agattgcacc actgtactcc   1020
agcttgggcg acagagcgag actccatctc caaaaaaaaa caaaaaaaca acaacaaaaa   1080
aaaaacactg tatgttaagg gagactcctt cagtatctaa gagcacttgg gggtggactg   1140
ggggagaagg gatgacttca tttacccca tagttatgga gtcttgagtt ctaagaaaat   1200
tttcatccct attgatttt atgctaaaaa cagaatctta caaatgtgat agctatatat   1260
ccaaatgagg tggtctagta caagcatttc tgaaaaaatt tttgaatgac aaaattttat   1320
cctaagcgat atgtttttcca agtgaatata attctagttt aacacaacat tgcaagtcag   1380
gtgtgcacat tttactaaca aacatatatc caatgtgatt tccagggcct tctcccagaa   1440
gcaaaaggag ttggaaagta gtctcctgcc tttagctgaa aatcaagaag agagtttttgg   1500
ttcttcattt taaatgtaga aaatcaaatc cttcacattt gatttgtggt cttcccaatt   1560
attaaaaatg tgctcactgg ctcaactgta tttttcaaat agcctagatt tacttatttt   1620
tttaaatgct cattaaaaac ttgtatacta tgtagtaaaa tgctgtactt gttctataca   1680
ataaaacaga tacttctttt gtaaaagctt agtagtaaaa aaaaaa             1726
```

        <210> 5701
        <211> 1127
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (163)...(962)
        <223> similar to gi3287681 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 5701
```
aaaaagcgcc ggcaattggg gtcgcagctg gagatgctgc ggccggcagg gctctggcgc     60
ttatgtcggc gaccttgggc ggcgagggtc ccagcggaga atcttggccg tagggaagtc    120
acctctggtg tctctccccg cggtagcacc tcgcccagaa ccctgaatat tttcgaccgg    180
gatttgaaaa ggaaacagaa gaactgggca gcccggcagc ccgagccgac caaatttgac    240
tacctgaagg aggaggttgg aagtcggatc gcagaccgtg tatatgacat acccagaaat    300
ttcccccttg ctttggatct tggttgtgga agaggttaca ttgcacaata tttgaataag    360
cttcagttat tccattgcag gaaactattg gaaagttttt ccaagctgac attgcagaaa    420
atgctttgaa aaattcctca gaaacagaaa tacctactgt cagcgtttta gctgatgaag    480
aattccttcc cttcaaagaa aatacatttg acctggtggt tagcagttta agtttgcatt    540
gggtgaatga ccttcctaga gcacttgagc agattcatta tattttaaaa ccagatggag    600
tgtttatcgg tgcaatgttt ggaggcgaca cactctatga acttcggtgt tccttacagt    660
tagcggaaac ggaaagggaa ggaggatttt ctccacacat ttctcctttc actgctgtca    720
atgacctggg acatctgctt gggagagctg gctttaatac tctgactgtg gacactgatg    780
```

```
aaattcaagt taactatcct ggaatgtttg aattgatgga agatttacaa ggtatgggtg      840
agagtaactg tgcttggaat agaaaagccc tgctgcatcg agacacaatg ctggcagctg      900
cggcagtgta cagagaaatg tacagaaatg aagatggttc agtacctgct acataccaga      960
tctattacat gataggatgg aaatatcatg agtcacaggc aagaccagct gaaagaggtt     1020
ccgcaactgt gtcatttgga gagctaggaa aaataaacaa ccttatgcca ccggggaaaa     1080
aatcacaata aatatttatt cagtgtaaaa aaaaaaaag gggcggc                    1127
```


    <210> 5702
    <211> 1940
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1255)...(1671)
    <223> similar to gi186800 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

    <400> 5702
```
gtgcaattca tcgagacgtg ctggcctatc tggccgaggc ctggggcatg gacatcgagg       60
ccaccaaccg agactactag cggcctctgc acgaggcggc ctccatgggc caccgagact      120
gcgtgcgcta cctgctgggc cggggggcag cggtcgactg cctgaagaag gccgactggg      180
tcctcacaga aggcacagag gttgccggtc aaagctgttt tcctgcctgc cagacccctg      240
aatcctctag gttttccatc tgtgccaagg atgtgtgtgt tttgaagacc tggcccctgg      300
cttctaatgt ctcagctgcc tccatctgac agcttctcct ggttggcctt aggactcctc      360
tgatgatggc ctgcacaagg aagaacctgg gggtgatcca ggagctggtg aacatggcg      420
ccaatccact cctgaagaac aaagatggct ggaacagttt ccacattgcc agtcgagaag      480
gcgaccctct gatcctccag tacctgctca ctgtttgccc aggtgcctgg aagacagaga      540
gcaaaattag aaggactcct ctgcatactg cagcaatgca tggccatttg gaggcagtca      600
aggtgcttct taagaggtgc caatatgaac cagactacag agacaactgt ggcgtcaccg      660
ccttgatgga cgcaatccag tgtggtcaca tcgacgtcgc taggctgctc ctcgatgaac      720
atggggcttg cctttcagca gaagacagcc tgggtgccca ggctctgcac agggcagctg      780
tcacagggca ggacgaagcc atccgattct tggtctctga acttggcgtc gatgtagatg      840
tgagagccac atcaacccac ctcacagcac ttcattatgc agctaaggaa ggacatacaa      900
gtacaattca gactctctta tccttgggag ctgacatcaa ttctaaagat gaaaaaaatc      960
gatcagccct gcatctggcc tgtgcaggtc agcacttggc ctgtgccaag tttctcctgc     1020
agtcgggact gaaggattct gaagacatca cgggcaccct ggctcagcag ctcccaagga     1080
gagcagatgt ccttcggggc tctggccata gcgcaatgac ataaggatgt ttccaagagg     1140
aggcaataaa gtgcatgagt tgctgggagc ctgagcacct ttcgtttttc ggctcagaga     1200
aagccaagtg caacttgctt cagtcatcct gaacctgagt tcaaccaacc gcagccacct     1260
acgtttgacc ccagcgagat caaagttgta tatctgaggt gtaccagtgg tgaagtcagt     1320
gccacatctg cactggcccc caaggtcagc tccctgggtc tgtctccaaa aatggttgct     1380
gatgacatca ccaaccattg actggaagag tctgaggatg atagtgaaac tgaccagcca     1440
cagcagacag gcccagattg aggtggtgcc ttctgcctct gccctgatcg tcacaaccct     1500
caggaaccac cgacagaaag aaagaaacac aaaaacatga aacacagtgg tagcaccact     1560
tctgatgaga ttgtcaacat tgcctaacag atgcagcagc agtctttagc cagagaactc     1620
tctggaacca ttaaagaatt cctgggggcc ggttgcggtg gctcatgcct gtagtcccag     1680
cactttggga ggccgaggcg ggaggatcat gaggtcagga gatcgagacc atcctggcta     1740
gcgtggtgaa accccgtctc ttactaaaaa tacaaaaaaa ttagccaggc atggtggtgg     1800
gcgcctgtag tcccagctac tcaggaggct gaggcaggag aatgctgtga accctggagg     1860
```


4237

```
cagagcttgc agtgagccga atatgcgcca ctgcactcca gcctgggcaa cagagcaaga     1920
ctccgtctcc aaaaaaaaaa                                                  1940
```

<210> 5703
<211> 1512
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (922)...(682)
<223> similar to gi1710216 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5703
```
ttttaattac aaaaaaaatt ttattattac aaaacataca atctcacaaa ggtacaattt       60
gaaatacggg gacacccttc taactaccac ccaggtgaag aaacagaact ttgtcaggca      120
ccccagaacc cctccaagtg cctcatcaca atgacaactc cttccctcta gaagtagcca      180
ttattcttgt atagtactga ctgtgtttct ttatggtttt atcttatttt ttagagacag      240
ggtcttgttc tgtcacacaa gaacaagtgg acaggtggag tgcagtggtg ttcatagctc      300
actgcaatct tgagctcctg ggctcaggtg atcttcctgt cttagcctcc caaggtgctg      360
ggattatagg cgtgtgtcat tgcacttgac ctagttttat tttttttttg agatggggtc      420
ttgctctgtc acccaggtgt tgcccaggct tgagtgcagt ggcgcgatct cagctcactg      480
caacctccgc ctcccaggtt cacgcaattc tcctgcctcg gcctcccgag tagctgggat      540
tacaggtgcc cgccaccatg cctggctaat tttttgtatt tttagtagag acggggtttc      600
accatgttgg ccaggctggt ctcaaactcc tgacctcaag tgatccgccc gcctcggcct      660
cccaaagtgc tgggattaca gatgtgaggc accgtccacc gtgcccggcc gagttttatt      720
cttgaatcgt gcatgtctct gttcactaca gtttagtgca ccatttaaat aaatttgttg      780
tcttttaagt tcatcaaaaa tatttctttt gaagcactat aataatgctg gtgatggaac      840
tcgccaccat tattccctgg gagcttctgg cagattctgt cagttggaat ctctaattct      900
tttctcagtg gaccttttta cttgactccc acagttcttt aagtagcttc tttttttcca      960
gggtttcctt tgctcttttt ttcctttctt gtttttctt cgccgcttct cgttttttctt     1020
tgtgaacagg actgttttca ccattgtaga aaacatctac tttctcttgt aggattttcc     1080
gagctagctt tctgttctga tcaactgatc ttgtctgatg gcactttaca acgatgcctg     1140
aggggatgtg cttcagcacc acgcagttgc tggttttgtt ggttgcctgg cccctggac     1200
cgtgtccttt cacaaactgc tcttcgagtt cattctcatc caaggaaagc agtgcagggt     1260
agtccttctt gcctgccatc tggaccggag tgacagctat tcctggggat aacaacgtca     1320
gcttctccca aagccggagt ccccatggcg ccgggcatat tcgggtcagt ggtgtaggaa     1380
aatgaaataa acccacggtg ctcataagga acgtggctct gctggctgag gacctggtct     1440
caggacccga ctcgtgccct caacgttcta gggatatcca aatcacctca gcggaggatt     1500
cgcaatcgcg at                                                         1512
```

<210> 5704
<211> 963
<212> DNA
<213> Homo sapiens

<400> 5704
```
tttttttttt ttgccgctgt caacagacag tttattctat atacaaacac aattttgtac      60
actgcaatta aatagaatgg aatgagcgct cctccgcatt cctccccgag tgactggttt     120
ggccgccggc ccactccatc cccgagtggg actggaccac ggccctggct gctgccactg     180
atgttggcgc ctgcacccca cgtccctatg cccgaggcgc aagctctgct ctcccgggga     240
ccccaggcct ggcgcacacg cggggagggc ggggccatgg agaaggcact gcaggagca      300
ccaggcagag ccgggctgag gccggccggc actagggcgc gaggccccac cccaagccgg     360
cctctcctcc acacctccgc cttgctcaga gacctgcacc atgggacccc actccatcct     420
caggacggtt cactgcagac ctaccaagac ccctccagaa ccttccgcgg aaccccaccc     480
cctctccttg ctgaccagct caaacacctc actagcgggt acaagcctcg ggcgcgacct     540
cacaccaggg ggaggaaagc cgccttccgg gcaaacccca cgaaaccctg aaagcccccg     600
acacaggctg ggcagtccca gaggaaggag gtggctggcc tcccccaccc ccacgggctc     660
gggaaggtca ggcccagcca gcagggggtca gaggcggctc agctgtgcgg ctcaggaccc     720
cacctccgag ggcgcctccg ttggggccat ggaggccggg ctaggcccgc ctaccgcagc     780
ccccagggga gttgtgtcag aagctgcgga gtcactcggg gggacactgt cctggggggc     840
gtgggggagg cccccagcag ggcccagcgg gctggctgga cgccgctcca ggagggaggc     900
gctcaggccg gacaggaagg aggcgtctgt gatgatggca gcggtctctg ccatccaacc     960
cag                                                                   963
```


<210> 5705
<211> 1521
<212> DNA
<213> Homo sapiens

<400> 5705
```
tttgagatgt atttcccaga aaagcaacat gatgaaaatg gtcagaaaag gcaatttcct      60
tcctcttttc taatttggct ctggagccac cagcagaacc tcttcaatat cttgcatgtt     120
acagatttca ctgctcccac cagcttggag acaacatgtg gttcttgaca actctgctcc     180
tttgggttcc agttgatggg caagtggtag acaccacaaa ggcagtgatc actttgcagc     240
ctccatgggt cagcgtgttc caagaggaaa ccgtaacctt gcactgtgag gtgctccatc     300
tgcctgggag cagctctaca cagtggtttc tcaatggcac agccactcag acctcgaccc     360
ccagctacag aatcacctct gccagtgtca atgacagtgg tgaatacagg tgccagagag     420
gtctctcagg gcgaagtgac cccatacagc tggaaatcca cagaggctgg ctactactgc     480
aggtctccag cagagtcttc acggaaggag aacctctggc cttgaggtgt catgcgtgga     540
```

```
aggataagct ggtgtacaat gtgctttact atcgaaatgg caaagccttt aagttttttcc      600
actggaattc taacctcacc attctgaaaa ccaacataag tcacaatggc acctaccatt      660
gctcaggcat gggaaagcat cgctacacat cagcaggaat atctgtcact gtgaaagagc      720
tatttccagc tccagtgctg aatgcatctg tgacatcccc actcctggag gggaatctgg      780
tcaccctgag ctgtgaaaca aagttgctct tgcagaggcc tggtttgcag ctttacttct      840
ccttctacat gggcagcaag accctgcgag gcagagacac atcctctgaa taccaaatac      900
taactgctag aagagaagac tctggggtta tactggtgcg aggcttgcca cagaggatgg      960
aaatgtcctt aagcgcagcc ctgagttgga gcttcaagtg cttggcctcc agttaccaac     1020
tcctgtctgg tttcatgtcc ttttctatct ggccagtggg aataatgttt ttagtgaaca     1080
cttgttctct gggtgacaat acgtaaaaga actgaaaaga aagaaaaagt gggaatttag     1140
aattctcttt ggattctggt catgaaaaga aggtaatttc ccagccttca agaagacaga     1200
catttagaag aagagctgaa atgtcaggaa caaaaagaag aacagctgca ggaaggggtg     1260
caccggaagt gtaccctagg gggccacgta gcagcggctc agtgggtggc catcgatctg     1320
gaccgtcccc tgcccacttg ctccccgtga gcactgcgta caaacatcca aaagttcaac     1380
aacaccagaa ctgtgtgtct catggtatgt aactcttaaa gcaaataaat gaactgactt     1440
caactgggat acatttggaa atgtggtcat caaagatgac ttgaaatgag gcctactcta     1500
aagaattctt gaaaaactta c                                              1521
```

<210> 5706
<211> 789
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (289)...(648)
<223> similar to gi208157 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5706
```
aggcagccac tttctagaga cagttagctt cattggacta atctggggaa tctgaagttc       60
aaggacctca ccctgttact aatgttgcta acttcctctc cacctctgtt tatgattcct      120
ctgcgtgtaa acagagcagc tccacccagc tccacactcc agctaccaga gaagcctctg      180
gaacaaacat ggaatatcct tacccccttc accagaccc tacctgtctc caatctcagc      240
agaaaagtaa caagctgggc cggggtgggg atcccggtga catgtctacc agaggcagga      300
agcggagggg agaggagagc agagtgtggg ctgggggtcc caaccactag gggacccccc      360
agaagtcagc atcattcggg agcctgaggc gctgggaatt ccaaggcctg gccagaaagc      420
cccagtctaa gggacgcatc ccagtcccca gggagcccca atctaaggga tacagcccca      480
tcctcaggga gccccagtct gagggagaca cagactcgtc ctcagggagg cccagtctaa      540
gggacacagc cccatcctca gggagctcca atctaaggga tacagccctg tcctcaggga      600
gccccagtct gaagggagac tcagtgctct cctcagggag ccccgtctg gatcagggaa      660
ggagctctgt ttccctgtgg aggtgactgc tcaggaggaa agtccttttc catggcactc      720
cctgacttcc ccttcccttt ctctcctgca gccagcaggg ctccagcggg ggagcggttg      780
tctttgggg                                                            789
```

<210> 5707
```

<211> 1045
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1046)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (728)...(28)
<223> similar to gi200545 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5707
ctggccccag gctttcccac atggaaggtg gctgcatgcc aaggggagga gcgacacctc   60
caggcttccg ggagcccaga gagcatgtgg caggcagtgg ggcctcttca tcagcagcct   120
gcctggctgg ctcccttggc tgtgggcagg tagcacgcct gctggcagag gtacctggtg   180
gctgccctgt tcgcatcagt ggcgatgact ttatttgcgg agcatttctg caagcgttgc   240
ctggatgcgg tggtgcattg tgggccctct gggctcctgc ctcagaatgt cagtgagcac   300
catgctggag gtcacccagc actgtggcag cgcccaggag ggcatagggc agcctaccac   360
ctccaagggg gcaggcgccc tcatctgggg ttgggtctgt gctgagctgg agggcctcta   420
gggaaccgtg gggcagggtg gccagctgct ggctcccaga gcgcagccca ggcgtcctca   480
acggggagcc ccaaatgtcc acgcccagaa caacagttgg caggacaggt gtgacacagc   540
cacagcagag gcaaggggtg ccaggagtcc ccagcggcat cctcggggag atgctggtga   600
ggggtccgta cagggtgggg tccccacccc tagcccctta ctgagggggg agtgcagcag   660
ttggcctgct tgtctggcgg agaaagccag ctccctgcac cctcggggct gagtcagatc   720
tgggtctgcc gcaaaggcct tgcctagacc aggtcacact gatgccctgg tttccctatc   780
tgtaaaatgg ggccaatgac acctacctca ctgggtcacc atcgagatca atccttctcc   840
ctgccccgac acctcgggca catcgcatgc actcagagca cagagccggg cagacgcagc   900
acctgcatgg ggagcccagt gcccggcaca gcacaggggc tttcagggag gccacgcagg   960
gccgtggggc tgaaccacgc tctcgttttg tcaggcagct atgcagnagc tcttccttgg 1020
tattgggttg ttntggtttt gtatt   1045

<210> 5708
<211> 928
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (778)...(446)
<223> similar to gi4927776 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5708

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tttttttttt ttgcgtgagc aataaagctt tttaatcacc taggtgcagg caggctgagt      60
ccaaagagag tgtcagcgaa gggagatagg ggtggggccg tttttatagga tttgggtagg     120
taaaggaaaa ttacaatcaa aggggggttgt tctatggcag gcaggggcgg gggtcacaag     180
gtgctcagtg gggaagcttc tgagccagga gaaggaattt cacaaggtta atcgctcagt     240
taaggtgggg caggaacaaa tcacaatggt ggaatgtcat cagttaaggc aggaacaggc     300
cattttcact tcttttgtga ttcttcactt gcttcaggcc atctggatgt atacatgcca     360
ggtcacaggg gatatgatgg gctttgcttg gggcttcaga ggtcttgaca cacatcacta     420
agcttactct atggattcgc ctcaaattct ttcttgcaag agatccaaga atgctctctt     480
ggggtctgga tagggacccc tttccgttga caagacctcc ccgcctccgc ttttaattgt     540
ttggccttca ttcctcttct acagtgctcc ctgcaatcag tactggtgct gtacatattt     600
gctagcttcg tacatacggc acgaagtaga tgctcagtaa atgttggttg actgagtatc     660
ctctgcatct cggtgacatc acatcctgcg tgccgtggcg tcattctgca ttcctctgcg     720
ggaggctcag atccggaggg tttaagtggt tgtttataac atgcaccgaa catatccaac     780
ggaggctgtg gtttccgacc gcccacaaaa agcgcggttg gcgggagtgc gggttcgggg     840
tcggctggca gctgggagac tccagctctg ggcggaaaca cactgcctcg gaggcgcccg     900
gacgcgtggg tcgagccagt aataacga                                       928
```


<210> 5709
<211> 3918
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (26)...(2915)
<223> similar to gi4191594 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5709
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gcgcggagga gggggcgacc acaagatggc ggacctctcg ctgcttcagg aggacctgca      60
ggaggacgca gacggatttg gtgtggatga ctacagctca gagtctgatg tgattattat     120
accttcagcc ctggacttgg cctccacaaa gatgaaatgg ttgaacgccc cctgggaaga     180
ttgggacaaa gtatgctgca agtgagaacc atatttaacc agacaaaatg gtggccccgg     240
agtttgcctc gatacccttg agggaaagtc tgcgatgatg aaagagattg tattgctgtt     300
ttgggaaaga attagccaga ttgggccgat gattcagaac caacttgtga gagcggctga     360
attggaacag gtgcctcaca tcgcactgtt tttgttcaag aaaacccgcc tttcaattac     420
catatgcttt ttttcaaaat tcttactacc ctattgtggg ttagatacct tggcagatca     480
gaattaatca ggtgaggaaa acaagtcagg cagctttgct tggctctgtt ggagcaggag     540
ctcattgaac gatttgatgt ggagaccaaa gtgtgccctg tcctcataga gctgacagcc     600
ccagatagca atgatgatgt gaaaacagaa gctgtggcta taatgtgcaa aatggctccc     660
catggttggg aaggatatta cagagcgtct tatcctccct aggttttgtg agatgtgctg     720
cgattgcaga atgtttcacg gttcggaaag gtctgtgctg ccaattttgg agatatttgc     780
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tctgataatg tatggggagt ccgaaaggct tgtgctgaat gcttcatggc ggtttcatgt     900
gcaacatgtc aagaaatccg acggaccaaa ttatcagcac tttttattaa tttgatcagt     960
gatccttcac gttgggttcg ccaagcagct tttcagtctc tgggaccttt catatctact    1020
tttgctaatc catctagctc aggccagtat tttaaagaag aaagcaaaag ttcagaagag    1080
atgtcagtag aaaacaataa aaggaccaga gatcaagaag ccccagagga tgtacaagtc    1140
aggccagagg atactccttc agatctcagt gttagtaatt ccagtgtcat actggaaaac    1200
acgatggaag accatgctgc tgaggcatcc gggaagcctc taggtgaaat tagtgttcca    1260
```

```
ctggacagct ctttactttg tactttgtcc tcagaatctc accaggaagc agctagtaat    1320
gagaatgata aaaaacctgg taactacaaa tctatgttac gaccagaggt tggcaccact    1380
tcacaagatt cagctctctt agatcaggaa ttgtataact ccttccattt ctggaggact    1440
cctcttcctg aaatagatct agacatagag cttgaacaga actctggggg aaaacccagc    1500
ccagagggac cagaggaaga atctgagggc cctgtgccca gttctccaaa catcaccatg    1560
gccaccagaa aggaactgga agaaatgata gaaaatctag agccccacat tgatgatcca    1620
gatgttaaag cacaagtgga agtgctgtcc gctgcactac gtgcttccag cctggatgca    1680
catgaagaga ccatcagtat agaaaagaga agtgatttgc aagatgaact ggatataaat    1740
gagctaccaa attgtaaaat aaatcaagaa gattctgtgc ctttaatcag cgatgctgtt    1800
gagaatatgg actccactct tcactatatt cacaacgatt cagacttgag caacaatagc    1860
agttttagcc ctgatgagga aaggagaact aaagtacaag atgttgtacc tcaggcgttg    1920
ttagatcagt atttatctat gactgaccct tctcgtgcac agacggttga cactgaaatt    1980
gctaagcact gtgcatatag cctccctggt gtggccttga cactcggaag acagaattgg    2040
cactgcctga gagagacgta tgagactctg gcctcagaca tgcagtggaa agttcgacga    2100
actctagcat tctccatcca cgagcttgca gttattcttg gagatccaat tgacagctgc    2160
agatctggtt ccaattttta atggattttt aaaatgaccg tcgatgaagt caaggatagg    2220
tgttcttaaa cacttgcatg attttctgaa gcttcttcat attgacaaaa gaagagaata    2280
tctttatcaa cttcaggagt ttttggtgac agataatagt agaaattggc ggtttcgagc    2340
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ttcctacaag ttggtcagcg agatggtgaa gaagctgcac gcggcaacac caccaacgtt    2520
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tcggcaagcc tttgtctttg tctgccagac tgtcattgag gatgactgcc ttcccatgga    2640
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agatgccatg agcacagcgt cctcaaccta ctagaaggct tgaatctcgg tgtctttcct    2940
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cggggggagga gagaccttcc tctcctgcgg acttcattgc aggtgcaagt tgcctacacc    3060
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ctttaagggg aaataaatttc tcagaggatt ataattgtca ccgaagcctt aaatccttct    3180
gtcttcctga ctgaatgaaa cttgaattgg cagagcattt tccttatgga agggatgaga    3240
ttcccagaga cctgcattgc tttctcctgg ttttatttaa caatcgacaa atgaaattct    3300
tacagcctga aggcagacgt gtgcccagat gtgaaagaga ccttcagtat cagccctaac    3360
tcttctctcc caggaaggac ttgctgggct ctgtggccag ctgtccagcc cagccctgtg    3420
tgtgaatcgt ttgtgacgtg tgcaaatggg aaaggagggg tttttacatc tcctaaagga    3480
cctgatgcca acacaagtag gattgactta aactcttaag cgcagcatat tgctgtacac    3540
atttacagaa tggttgctga gtgtctgtgt ctgatttttt catgctggtc atgacctgaa    3600
ggaaatttat tagacgtata atgtatgtct ggtgttttta acttgatcat gatcagctct    3660
gaggtgcaac ttcttcacat actgtacata cctgtgacca ctcttgggag tgctgcagtc    3720
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ataagatcta tagagagaga tatatacact tttgattgtt ttctagatgt ctaccaataa    3840
atgcaatttg tgacctgtat taatgattta aagtggggaa actagattaa aatatttgtc    3900
ttttaactag ttaaaaaa                                                   3918
```

<210> 5710
<211> 1933
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<220> (1631)...(655)
<223> similar to gi5225320 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5710
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aagctgaagg ctagagactt cgggagcccc ccccggctca agactccccc ctacgctggg   180
tgtgggggtt agattcagag gcccgacacc cacactgggg taggttaggt attgggttta   240
cttaggccac aggcccccg ggggcaggga gacagagtgg ggggggcccga agctccctgg   300
tcctggggaa gagttaaaaa gttctggggg taggccctgg gccccgtggg ggcaagttta   360
agagatgagg ggaggtttac tcctttaggc ccagggagtt ggttagaaga cagttggggg   420
ctggtagaaa atgcctggtt taaagccttg gcctctagga ggtttttaga gatttgctgg   480
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gggggatgtt ctgagctccc cagacaagaa ctgctggtta agaggggggcc aggcccggtt   600
ggggctcagc tgtccctgag gagctcggca tcccgcctgg gagatgcagc tgtcactggg   660
gtttctccct ctctgttgtc ctggcctcgt ccttggcagg tggcggggac ttcttggggg   720
aagctgaagt gctggggttg gggacccccg ccccgactg ggcatctatg ctggcgtgcc   780
tccttgcgga caaggtcctc cagctccttc ttccatccaa ggagctcagc aagggccagg   840
cagccctggt cgcattcacc cagccaggcc acgtccctgc aaggaggtac ccatgaccag   900
gaggaggtcc accttcagga agtctgactg catacaggag aagaaacgcg ctgggaggct   960
ctcaccaaaa aagacgatta tcaggcttca ccaggctctg acagtcttca cacttgggcg   1020
tcacctcaga gaagatcttc tctttcatcc agcttagcgg gtattcgtgc cggcagctgg   1080
cgctgacgca gtgtgatgtg tagaagggtg ccgtgcgcct ccaacaaagt cctcctgttc   1140
cagcccggct attcgctcca gggtatctat gttctgcgtg tagcagcgca ggagtagccc   1200
cttgtccttc agcaggcgcc atgaagtagt gaacaagatg gttggccttg aaactgcccc   1260
aggataagag ttcccttggc gagggcgaag aagggttccg gatgtttctt gaaaatagct   1320
gatctccaaa gaatggcctc tgggttaggg aaagatggtc acttctctag gttgttcaat   1380
aagaggccgg tggatggaga agcgaaaagt cggggatgcc tgcggatgtg gagattccag   1440
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ccaaggtcag ctcgtccagc agacgctcct tctggctgcc caggctgagc gtctgggaga   1560
ataagttccg caggaagtcc atgtctgctt ctccaccagc ggctcctccc tcagagtctg   1620
aatctgagtc ctggaagggg tggggtggag tggccaggcc cgagaggtgg gattagggag   1680
ggaggagagg gggtgatacc aggtttgggg aaaaggctgt ggcaggaagg tggcctgagg   1740
aagtgcgggg tggtggagag actgcactgg ggctagctcc agggctctgg gacaggctgc   1800
cggggttgga gtcctggcca tgcccgtccc caggagcaag acctcatgtg agtggctttg   1860
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gcagtcacag ctt   1933

<210> 5711
<211> 4268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2249)...(2871)
<223> similar to gi841318 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5711

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aaggagaaaa gagtgacagt acaattgcct acagaatcca tacagaagaa ccaggaagat    60
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ccaggaagtg aagaaaaaaa tcagggacca tcaatgattg gtcgaaaaga agagagatta   180
ataactgaaa gaaaacacga acatctgaag aataaatcag caccaaaggt cgtcaagcaa   240
aaggttatcg atgcacatct tgattcacag actcagaatt ttcagcaaac acaaatacag   300
accgctgaaa gtaaagctga acataaaaaa ttgccccagc catataatag tctgcaggaa   360
gaaaaatgtc tcgaagtcaa gggcatacaa gagaaacaag tcttctctaa tactaaagat   420
tcaaagcaag agattacaca gaacaaatct ttcttttcct ctgtgaaaga atcccagcgg   480
gatgatggaa aaggtgcctt aaatatagtg gaattcttga gaaacgtga agaactgcaa   540
cagattttgt cgagagtgaa acagtttgaa gcagagccaa ataaaagggg ccttaaaaca   600
tttcagacac tattaaatac tatcccagga tggctgataa gtgaagataa gagagaatat   660
gcagttcaca ttgccatgga gaataattta gaaaaagtaa aagaagaaat aacacatatt   720
aaaactcaag cggaagatat gcttgtgtcc tatgaaaata taattcagac agccatgatg   780
tcctccaaaa caggaaaacc gggaaataaa cccactagtc ttgatgaaac atcatccaaa   840
gtatctaatg ttcatgtcag caataataaa aatagtgaac agaaagaaaa taaaattgcc   900
aaagagaaaa cagtacagca ccaagtaaca gctcatcatg aagcaactgt cgtagtcac    960
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acacgcccac cgtcaccaac ttttatcaca atagaatcta ctgcccgacg aacagaaaac  1080
cctactaaga acgagctttc tcagtcccct aaaaaggaca gttatgttga accccaccca  1140
agaaggccca tgtcgcaaaa atctgaaatt cacagagcaa acacttcccc ttctccaccc  1200
aggagtcgct ctgaacaact tgtcagactc aaagacacca ctgcaaagtt atccaaaggg  1260
gccatcccat gtccagcagc aacccggtt ccaattgtag agaagaggtc tgaaatcatc  1320
atgtctcctg caacacttcg tcgtcaaatt aagatagaaa ctcgcggtac ggactctcca  1380
cctacaatca caataccagt aaatataaat catgctgcta gtggttcctt cagagaatct  1440
gtggacgctc aagaggaaat caggaaagtg gagaagagag ctacttatgt tcataaagat  1500
ggactaaatt ccactgatca catggtgccc gacactgaaa gttatgatgc agttgaaatc  1560
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aaccgaactg ttcaaatggc tgaaaatttc gtgaatgacc ctgaaaatga aataaacaga  1680
tggttcaggg aatttgagca tggcccagtt tctgaagcaa agtcaaatag aagagtttat  1740
gcaaagggag aaacaaacca taacatacaa caagaaagtc gtacattttg taaggaggaa  1800
tttggattaa catctttagg aaacacgagt tttacagact tttcttgcaa acatcctaga  1860
gaactgcgag aaaagattcc tgttaagcag cccaggatct gctctgaaac caggtctcta  1920
agtgaacatt tctcaggcat ggatgcattt gagagtcaaa ttgttgagtc gaagatgaaa  1980
acctcttcat cacatagctc agaagctggc aaatctggct gtgacttcaa gcatgcccca  2040
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gtaagaaaaa attttcaaaa gacgtggcaa gagagtggaa gagtttttaa aggcctggga  2160
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ttatccaatg gagtgcctag tggcagacaa gcagaatttt cataagtcct gcttccgatg  2340
ccaccattgc aacagtaaac taagtttggg aaattatgca tcacttcatg gacaaatata  2400
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acataagcag cataaagata gatggaactg caaaaaccaa agcagatcag tggactttat  2520
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gagtaacagg aaaagtgcta tggatcttaa tgacaacaat aatgtgattg tgcagagtgc  3060
tgaaaaggag aaaaatgaaa aaactaacca aactaatggt gcagaagttt tacaggttac  3120
taacactgat gatgagatga tgccagaaaa tcataaagaa aatttgaata agaataataa  3180
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taacaattat gtagcagtct catatctgaa taattgcagg cagaagacat ctattttaga    3240
atttcttgat ctattaccct tgtcgagtga agcaaatgac actgcaaatg aatatgaaat    3300
tgagaagtta gaaaatacat ctagaatctc agagttactt ggtatatttg aatctgaaaa    3360
gacttattcg aggaatgtac tagcaatggc tctgaagaaa cagactgaca gagcagctgc    3420
tggcagtcct gtgcagcctg ctccaaaacc aagcctcagc agaggcctta tggtaaaggg    3480
gggaagttca atcatctctc ctgatacaaa tctcttaaac attaaaggaa gccattcaaa    3540
gagcaaaaat ttacactttt tcttttctaa caccgtgaaa atcactgcat tttccaagaa    3600
aaatgagaac attttcaatt gtgatttaat agattctgta gatcaaatta aaaatatgcc    3660
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atgaagagat gaaacactat ggatatgttt tccattcaaa tggcacttta gcatattggt    4140
ctgtttttcct gtaaaacatc atgggtgtga ttttttatact gctgctgctt gtcacaatta    4200
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aaaaagtc                                                              4268
```

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<400> 5712
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acaatggaaa agtcctggat gctgtggaac tttgttgaaa gatggctaat agccttggct    180
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tatggaggca ttatcttact tttgttaata ttcatatcaa tagcaggtat tctgtataaa    300
ttccaggatg tattgcttta ttttccagaa cagccatcct cttcacgtct ttatgttccc    360
atgcccactg gcattccaca tgaaaacatt ttcatcagaa ccaaagatgg aatacgtctg    420
aatcttattt tgatacgata cactggagac aattcaccct attccccaac tataatttat    480
tttcatggga atgcaggcaa cataggtcac aggttgccaa atgcattact tatgttggtt    540
aacctcaaag ttaacctttt gctggttgat tatcgaggat atggaaaaag tgaaggagaa    600
gcaagtgaag aaggactcta cttagattct gaagctgtgt tagactacgt gatgactagc    660
cctgaccttg ataaaacaaa aatctatctt tctggccgct cccttgggtg gagcagcggc    720
tattcatctg gcttctgaca attcacatag gatttcagcc attatggtgg agaacacatt    780
tttaagcata ccacatatgg ccagcacttt attttcattc tttccgatgc gttaccttcc    840
tttatggtgc tacaaaaata aatttttgtc ctacagaaaa atctctcagt gtagaatgcc    900
ttcactтттc atctctggac tctcagatca attaattcca ccagtaatga tgaaacaact    960
ttatgaactc tccccatctc ggactaagag attagccatt tttccagatg ggactacaa    1020
tgacacatgg cagtgccaag gctatttcac tgcacttgaa cagttcatca aagaagtcgt    1080
```

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aaagagccat tctcctgaag aaatggcaaa aacttcatct aatgtaacaa ttatataatg   1140
tttccctttt tgattattgc attgtatttt aatttgtgca gaatgataaa gaatgttcct   1200
tttagaagtg tgttatgtct gtacctgtct gaagagtgac attaaacttt gaaaggactt   1260
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tatgtcagta taatagatat tgttcaaaag tttcttgttg ctaaagtggt gtaatctgtt   1440
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caccttaaaa gttaaatgaa atgcatgatg gtattttatt ccttgaatta tgcaatgcaa   1620
cattttacat gtaaatagca ctggtcatat actgatgtat atggttatct gggttatatc   1680
tattttttatg taaactctat tttgttttttg gcaagaagtg aaattgagac ttatgtgcag   1740
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ggaccctgtt ttccaaa                                                   1817
```

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tggtcaccaa ccgattcgac cagttatttg accgacgaat cgggancccg ttccgaggtg    180
ctgaaggcag cagagaacaa gaaaaaagaa gcccggcggg ggcgcgtgtg tggggccctg    240
gggcatagag cgcagctcag ggccggcggg cccacgacca actccaacgc ggcaggcaaa    300
cagcgtgcgc aaggagtccc agaaagaccg caagaacccg ctgcccccca gcgttggcgt    360
ggttgacaag aaagaggaga cgcagccgcc cgtggcgctt aagaaagaag gaataagacg    420
agttggaaga agacctgatc aacaacttca gggtgaaggg aaaataattg atagaagacc    480
agaaaggcga ccacctcgtg aacgaagatt cgaaaagcca cttgaagaaa agggtgaagg    540
aggcgaattt tcagttgata gaccgattat tgaccgacct attcgaggtc gtggtggtct    600
tggaagaggt cgaggggggcc gtggacgtgg aatgggccga ggagatggat ttgattctcg    660
tggcaaacgt gaatttgata ggcatagtgg aagtgataga tcttcttttt cacattacag    720
tggcctgaag cacgaggaca aacgtggagg tagcggatct cacaactggg gaactgtcaa    780
agacgaatta actgacttgg atcaatcaaa tgtgactgag gaaacacctg aaggtgaaga    840
acatcatcca gtggcagaca ctgaaaataa ggagaatgaa gttgaagagg taaaagagga    900
gggtccaaaa gagatgactt tggatgagtg gaaggctatt caaaataagg accgggcaaa    960
agtagaattt aatatccgaa aaccaaatga aggtgctgat gggcagtgga agaagggatt   1020
tgttcttcat aaaatcaaaga gtgaagaggc tcatgctgaa gattcggtta tggaccatca   1080
tttccggaag ccagcaaatg atataacgtc tcagctggag atcaattttg gagaccttgg   1140
```

```
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ccgtggcagc aggaccgaca agtcaagtgc ttctgctcct gatgtggatg acccagaggc   1260
attcccagct ctggcttaac tggatgccat aagacaaccc tggttccttt gtgaaccctt   1320
ctgttcaaag cttttgcatg cttaaggatt ccaaacgact aagaaattaa aaaaaaaaag   1380
actgtcattc ataccattca cacctaaaga ctgaattta tctgtttaa aaatgaactt    1440
ctcccgctac acagaagtaa caaatatggt agtcagtttt gtatttagaa atgtattggt   1500
agcagggatg ttttcataat tttcagagat tatgcattct tcatgaatac ttttgtattg   1560
ctgcttgcaa atatgcattt ccaaacttga aatataggtg tgaacagtgt gtaccagttt   1620
aaagctttca cttcatttgt gttttttaat taaggattta gaagttcccc caattacaaa   1680
ctggtttaa atattggaca tactggtttt aatacctgct ttgcatattc acacatggtc    1740
aactgggaca tgttaaactt tgatttgtca aattttatgc tgtgtggaat actaactata   1800
tgtattttaa cttagtttta atattttcat ttttggggaa aaatcttttt tcacttctca   1860
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ataactgatt tacattttca gctatattta ctttttaaat gcttgagttt cccatttta    2040
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catcgtgtca agtgaagtag ttttataggt atgggtttt tctcccccctt caccagggtg   2160
ggtggaataa gttgatttgg ccaatgtgta atatttaaac tgttctgtaa aataagtgtc   2220
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atcagccacc atttaaccct tccttgttct aaaacaaaaa ccaaagggcg ctggttggta   2340
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aaggttggaa cagcagcact atacatgaaa tataaaccaa aaacctttac tgtttctaaa   2460
tttcctagat tgctattatt tggttgtaag ttgagtattc cacagaaagt ggtaattatc   2520
tcttctctct tcctccatta gaaaattagg taaataatgg attcctataa tgggagcatc   2580
accacttatt aaaacacaca tagaatgatg                                    2610



        <210> 5714
        <211> 1026
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (497)...(237)
        <223> similar to gi436173 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 5714
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        tcccagctga ccacggcccc tttctctggg gtcagaggga gaagacaggc gcagtcagca    180
        ggggcagctg ttgcaggtgg gagggttatt ttcccacagg aacaaaggtc tccatgatga    240
        tacggggtct ctatagtcat gttgagagcc taatggccct tggcataatt gctggtgtcg    300
        gggtagaagg tgtcttggag tttgctcaag tggttgagag ggagggaggt gccatagact    360
        tggaggaact gggcacgaag ccaaggatac aaatccaggc agggctgtgg ggcaggatag    420
        agagcagggc cttctactga aggagtgact caggaaggag gaggggaagg tgacaagccc    480
        ctgggcagga gccctgtggc catggatcat tttaaattga gaccagagag tgagcagtcc    540
        agggcagcta taaccttggc tagaaagggc agaggcagat gggcctgctc catctcgcct    600
        cttaagaagg tgggcaggac ggagatgcca cagtggatgc cactgctgcc acagcctcct    660
        gcggactcca ggaaggaagc ctggctctca gccatgcagg atggaaagaa agattctatt    720
```

```
ccaggagggg agctgccctg gaacgcccca aggacagcca ggacccactg ttcattcagg      780
attcccgcat tttctcctac gggagctaac gcctgtgcct gggtcctggc agcgctctgg      840
actccacact ctcctcctgg gtttcacctt tgtaacagga tccctgcaga ccacgcccac      900
gacaaacact gtctccagag ggcaggacaa aggaagggca cggcgccggg cggtggtgtg      960
gttgcccatc aggaagaggc cgacttcttc cagtgaaact gggcagacag aaggcagtga     1020
gaaatg                                                                1026
```

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        <210> 5715
        <211> 6521
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (164)...(4670)
        <223> similar to gi2370202 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
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        <400> 5715
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tactttttcac tctcaggaga acccacatgt ctaatattta gacatgatgg caaactgggc     180
ggaagcaaga cctctcctca ttcttattgt tttattaggg caatttgtct caataaaagc      240
ccaggaagaa gacgaggatg aaggatatgg tgaagaaata gcctgcactc agaatggcca      300
gatgtactta aacagggaca tttggaaacc tgcccccttgt cagatctgtg tctgtgacaa     360
tggagccatt ctctgtgaca agatagaatg ccaggatgtg ctggactgtg ccgaccctgt      420
aacgcccct ggggaatgct gtcctgtctg ttcacaaaca cctggaggtg gcaatacaaa       480
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catacgtggt cgtccaggac cggcaggacc tccaggatca cagggaccaa gaggagagcg      600
agggccaaaa ggaagacctg gccctcgtgg acctcaggga attgatggag aaccaggtgt      660
tcctggtcaa cctggtgctc caggacctcc tggacatccg tcccacccag gacccgatgg      720
cttgagcagg ccgttttcag ctcaaatggc tgggttggat gaaaaatctg gacttgggag      780
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tggtgaacct ggcagaaatg gaaatcctgg tgaagtggga tttgcaggat ctccgggagc     1020
tcgtggattt cctggggctc ctggtcttcc aggtctgaag ggtcaccgag gacacaaagg     1080
tcttgaaggc cctaaaggtg aagttggagc acctggttcc aagggtgaag ctggccccac     1140
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aggtgaccca ggaacagttg gtcctccagg gccagtggga gaaagggggtg ctcctggcaa     1740
tcgtggtttt ccaggctctg atggtttacc tgggccaaag ggtgctcaag agaacgggg      1800
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```

                                      4249

```
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aatcagaggg cagcccggga gcatgggcct tccaggcccc aaaggtagca gtggtgaccc    2040
tgggaaacct ggagaagcag gaaatgctgg agttcctggg cagaggggag ctcctggaaa    2100
agatggtgaa gttggtcctt ctggtcctgt gggcccgccg ggtctagctg gtgaaagagg    2160
agaacaagga cctccaggcc ccacaggttt tcaggggctt cctggtcctc cagggcctcc    2220
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gttaggacct agaggagaac gaggaaatcc tggggaaaga ggagaacctg ggataactgg    2340
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aaaatgagtt taaaatgttt aacttgtgat cgagacctac atgcatgtct tgatattgtg    5220
taactataat agagactctt taaggagaat cttaaaaaaa aaaaaaacgt ttctcactgt    5280
```

                                        4250

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cttaaataaa attttttaaat agtatatatt caggggcatt ttggaaaaca aagggaattt    5340
acttcgactt cttaaatttt tgtaaaagac tataagttta aacatctttc tcattcaaat    5400
ttaaagatat cttttctcctc ttgatcaatc tatcaatatt gatagaagtc acactagtat    5460
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catatagaac tttacaaaca tatgtccaag gactctaaat tgagactctt ccacatgtac    5580
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tgtatgtact ggcttataaa tgaaaatcta tctacaacat tacccacaaa ggcaacatga    6420
caccaattat cactgcctct gcccttaaaa atgtcagagt agtattattg ataaaaaggg    6480
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```


        <210> 5716
        <211> 4188
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1803)...(1580)
        <223> similar to gi504529 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters

        <400> 5716
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gtgaattggg tgggcagaga caactgaaag ccacaggacc cggttggcac ctttttggcc     180
gcctgcgcct ttgcctgcag ccccgctccc tgggtcaccc gaaggaggag ctggcgctct     240
ttccgggcgc agaagcaccc gacccacgct ggaggaaacg gtccctctgg gcaggagaag     300
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cccacctccc ctcccacctt ctaaaatgct tgcggatctc acgtggccga ccctaaccag     420
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caattgtggg taagaacaaa gccccacctc tgcctaatag atgcagtttt ccacctgcag     540
ccaaaaagac aacctgttat tagctttttt cccagaggac aggcatctct atgaaactgc     600
cattgcaaaa tttgccgaca gtgagataac cagctccatt ttgcttctaa cctccatgcc     660
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gattctgacc ctccccaaac tgctcctggc gataacatca ccatcgtaaa gcctaagatc     900
agcacttggt gggtcacctg gcaccaccca ggctcatctg atgttgtggc acccaggaac     960
```


                                4251
```

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agatgctcag ggagaccgag taataataaa actccagtct cccacacagc tagctctgcg   1140
tgaattacct tttctctgtt gcaaatgccc tttcttgata aattggctgt ctaggtaaca   1200
gggaaggtga acccactggg cagttacact tttatccacc cttccagctg gatcacgcgc   1260
cctcttcaat gacatgacac gcagctagga gtgtatgagc ttgctggccg gcaccttccg   1320
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aatttgtaga tgggtgaaat cctgggccta cacagtgaca aagtgtatat agacagccag   1560
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ttccagagag agactgactc attttgagct ccaggcctac caggcagccc aaccgcggca   1800
gtaactgcct ctcacactga ggatggctca tgctctggtc cagccatggc ttgaacacct   1860
cccaacaaga acaaagccag actcattctc cctagcatct tcttccttgc tcaaagatcc   1920
cacaccccgt tagaagctgg aactgggtcc ttgtcacctt cctcacctcc ccagtcgtag   1980
tctggttaat ccttacatct caccacggtc accgtggcta gatgtgacct ccgcgatgct   2040
tcaggcacgt actagggcag cctgggcagg gctggtcact gtgatctcat gaggtgtgaa   2100
cttgaccccg gccttctttc ctgggatgcc ggctaaggac acaagttcag tgtttgccct   2160
ggcttgtagc ccagcggggg ctccgtcatc ccctggggaa tgcctcggcc tgcaagaccg   2220
cataccgcat tggaacaggg aaaccaccta cttcagcacc tccctcagca aggtggcagg   2280
tcccaacaag ccttgcacca cgaggaagtg gcagtggcat tcgggataat ggctccctgg   2340
ccagcttgtg aagttcaagg ggcctcgtta ccttccttac agcctcacaa gatcctcccg   2400
ggtcccagca caccctgagg gctgaccctc ccctcttgat tagtgcaggg gaaaagcact   2460
ttaaaaagct gtgtcatgcc gtaacttgca catcttctga ttctgacctg aaactgcatc   2520
ccaggtcggc acagacgcaa cccagtctcc tcccacctcc gagagtgcag tgtcctgaat   2580
ggagaacccc agcacccaga agcatccact gaaggacgta agtaggacaa ggccaactgt   2640
ggctgttcca gcagagggac tgtgggtgat gtttcccttc tctgatttct aaaatatctg   2700
caaacttgtt tcatttataa ttgaaaatat aatttgcata acaacagtaa attctacaca   2760
tgaaggcaaa cgtccgtggt tgacagaaat tacactggcc agaatcccca gtccccatga   2820
ggcttgtcca gacgcagtga accagtcgca gctgataaca cacagaccat tcccgatccc   2880
agaggtgcat ttcaggattc attctatttc atcagagacg gggtcttcct gtgttgccca   2940
ggctggtctc gaactcctgg gctgaagcaa tcttcctgcc ttggcctccc agagggttgg   3000
aattgcagat gtgaggtact tctttgatag tgcctccatg catgcagaag atgacgtgga   3060
gagctccgcg cggcacaggg caggaagctg gtgtgcactc tcatggatcc gaagccaaca   3120
cacgcctctc aactgaggac tctgcccctc tggcattctt ccagccacca gccctggggg   3180
ccaggagcca ctgagtgggt cacacagcct tagagggcaa cgagggcagg agctcgccct   3240
ggcggtcccc atgcagacaa gagggtcact ggcttccttg ctttgctctt cctggacatc   3300
ttcctcgaca ttcatctttc catcctacca agagcgtgga aaccacaggg catgaggaca   3360
ggcggagaca acgctggacc atctcacagc cacatcaaga ggctgcccac atcagggctt   3420
tctacgtggt tgcaaggaac acaaacctgt gtgctccatt tgcccactgg cactaggcct   3480
cctgcccacc acccgcttct aggctattcg agccgcagga gctacaggct gctagagaac   3540
cctgcggcag gatgctgggc gcggttcagc ttttgccagg gagcagcatg ggactgggat   3600
ttggaaggtg tacagtggct gcgggcttta gcaggaggag tgtctacagc accttctgct   3660
cctccaggta acctagtgtt tttatcagta tccattttcc tgtgtggatc tcttctgctt   3720
gaaacctgtc ctgcctattt ttcttccctg gaccctgact gatacactct taaaacgaga   3780
aaagggtacc gatttataaa gttcgtgaat taaaaactac accagtcatg gaaactcaat   3840
gacatcactc aaagaaaatt cacaactcta gccttgagtt agctccctca atagtatgat   3900
gaggtcatgc agatagaatc atacagttat taacaaaagt agttgatgtt aaccgagtaa   3960
tcagtttttat ctgtgttcct ttgagacaga gagagagagt gagaaagaga gcgtgagcaa   4020
gtgagtgcac atactattgt taaagtcttc tctctaaagt tttaatatct gatataccat   4080
aaacacccag ataaagaact ttagagaaac tggttaaaaa gatttaaaat tcccaactgt   4140
aataaatccc taaatgaat acccaaaaaa tgtttttaaa aaaaaaa                  4188
```

<210> 5717
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (530)...(179)
<223> similar to gi1330342 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5717
```
atttgtaacc tttgatgaca ttcttacgcc aagcttggca cgagggggag gaggtggctg      60
gtcagcagtc cacatctctg cgtcccccct ccccacgcat ccactcccct cacgccgtgg     120
ggcaaaaagg agggtgctgg ttgcgcgcgg agagcgcggt atgggtggcg aagtcccagc     180
ctctacctag ccccgcgcta gtcgtgggtt ccctccagcc accctctgg ccttcattc      240
cggtccctcc ccagacgggc cctcctcctt tctcatggac ccccaagagg cctctcgcgt     300
tctcccccga aggacccta tgcctagcca tggatcctcc attccccacc ctcccgtttt     360
cccgtcccgc agacggagcc ggtccccagc cgccgccagt ctccggcctc ggatgttgac     420
acaaacccga ggcggtttac actgagcggg tctggaagct ttcagggccc cggcaacacc     480
tcctccccgc acttgggggt ctccccacag cccgggccgg ccgcctgggc tgcactggcg     540
tctgagagct cctgacacaa ggctgtggga aggaaccctt ttaagccaaa ctggggggcaa     600
aaggggagcc agacatcccc gggctgggcc acgtgcgggg caggggacttc taaggatctg     660
tcgaaagtcg gggcggacgg ctggggattg gcctaatcgg agcgcggacg ctgaagagca     720
gcggtgga                                                              728
```


<210> 5718
<211> 2892
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2481)...(452)
<223> similar to gi758066 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5718
```
tttttttttt ttggatttt atggactctt tattagggta ttaagatatt gaaaataata      60
cacgtaaacc acaaaagagt agcattccat tttcttgaag tgcacatgat attatgaaca     120
atacaaatgc attatttta tcattaatag tttaatcatt aattatctca taagtcaatg     180
cagagagtga aattactatg aattaaactt ctgttcacaa tgtacagtat tttgcatatg     240
ttgactttac ttaattgtac atttttgttt ccaaagttaa tgttaaatac ctggtgcata     300
ggttgttgtc aagcaattac tctcattgtc ttgtcataca tgctaacatt ttgctaaata     360
taaatctaca agtatcacag ctgcatatat ttctgaagtg gttagaacag aggaggatgc     420
```


4253

```
tggaaagttg agttctttaa aatcttcgtt caaaacaaga gattttcatc tatgtcctct      480
tctttaattc caaagcagtg gccccactcc ttcagggtga tgtgcttatc cttgttgggg      540
tcacactcct caaagaaacg ggttatgcag tgttccatgg gcaccagaga tgctcgcaga      600
ggagcaagtt cagaatgtgt caagactcta tccatagggt gttggtcaag ttcactaaac      660
tgccagtgca caggatacac atacatgtgg tagttttct taaagtccct taagagaaga       720
tcaatgggat ggtccccagc caaaagcctc ttttcatccc aggtaaattt tcttgacttt      780
atttctctgg cttctcattt agataaccag catgttcaga gttggcttca taaagctgca      840
tgaggatatt cttgagccca gtctctcatc cgtagaggaa acttgaatca cttcaaagtc      900
ccgacaaagt aggaatagat ttggaggctt ccaaaataat ccagctggag ttgatgcccc      960
tttttggtcc cctccagtct gcatttagta gcgaatagat gacaggaact agcataggtc     1020
tgattgtcag tgccgcaaac ttgatcaagg ggttttgttg gaggaccaag tcactggatc     1080
ctggcaagac acaagtgagg ttttttccctg ttggtctgcc ttacagatgt ggcctctttt    1140
acactggaag ctcatgcaag aatccacagc atgcacccct catgttgcct tcacttgacg     1200
tttcctcctc atttgatgag ttctctgctt tcttggcctc ttggtgctct ccaggctcag     1260
tggtacctat attttcattt tcatgtactt tttctctttg ctccctcaat tttgaaggtg     1320
aataggcaat ggaatgaagc tctctcggcc tcccagaaaa ggcctggctt gggatgaaag     1380
tagtcatcac tttgcactgt gcctggggcc atcagtgccg ccatcatcgc catcatcatc     1440
gccatcatca tcaactccat gatttctggg cgtggtatta ccatcatcag taggttccat     1500
gagcagagcc tcagaaacag tcttttcttc tgtctctttg tggttgctga tagcttctag     1560
gccagtttta ccctcttgac tctgccattc agtttcttga atgtgcttat tgacgttcga     1620
tgcattttcc tcttccattt ctgcattgga gttatcttct tgttcttggt taccctgatc     1680
aaattcatcc tcctgcatct tgcttacttg agttggttga tcagactctt ccaaaatatc     1740
atcagattgg gtattgtctt cctcctgctt gctgttagca tgctccctgg gcaatttctg     1800
tctttctttc ttggttatca ttgtgggtac caacttcacc tggctctttt tcttcttcct     1860
cttctccatt ggaaatattt ggatcctgct cttggtttcc ttgatccctt aggccttggc     1920
tatgtttact gctcctgttc aactgatgat gtgaataatt tctaggttgt tcttggtttt     1980
cctctctctt tgtgatactt tcttgttggt tagaatctgt gaaggaacta acaccaggag     2040
ccaaaaaatc agtgttctct gagagttttt tctcctgagg ctcactcata tcttctttta     2100
tgtccaatgt acccttcaag ttggtgccat actcccaaat tccacactta aagtgaccca     2160
tcactgtccc tcttgaatcc ttcaatcccc agctcttggc ctagaactct gcccctgtt      2220
ctgctgactg ttcatggctt tcctcttttg actttagtac tgatgatttt tcagccttat     2280
ggtgggaatc gtcttctgtg gatactgctg tttctttttc attttcttca gcttcagccc     2340
ttaaactggg gattgcagtg ttgtcgggtg ctaccgtttc agcagttggt ttggaatgat     2400
cagataataa tcttgcattt gtcgggattg cagctgcagt tcccaagaga cataggaaaa     2460
aaagcccagt cttcatgctt tccagatctt taagtaaggg gctggaccca gagccactgc     2520
agaaaaattg aagttgaatc ccctctgcac acagacaggg aataaaagtt tgacaaacac     2580
ccaagaaaaa ctctttaaat ccctttcctc gttagctctg cttcttttgcc cagaggcata    2640
ttcaagtcta ctggagttga aattctgctg ctctgtcaac tagtgggggt ctgaagtgac     2700
agacgagaat ttggaggttg gcaccagaga gtatttcaga ctgtcatcgt ttttgttgca     2760
gattcctgga tttccctagc aggctggcct ctcatgcgag ggctttacag gcagtgcttg     2820
caaaccaaaa gggaaagagc taattctggt ggcgtggatg gggttaacag tcttcccccg     2880
gacgcgtggg tc                                                         2892
```

```
<220>
<221> misc_feature
<222> (1550)...(563)
<223> similar to gi4584796 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 5719
tttttttatca ttgacaatgt ttattatcaa gaaactttag gttttttaaa agaatgctcg      60
ttttagaata caccaagagg acactctgtg acaggacata tacaaacaag gataattaaa     120
atattaaata ctatctaaat taaaagacca taattcaaat tgctaattat aatatttgtg     180
tcggtagaaa taactatagt tcccccttcat gaaattcacc cccacgttct catgaagact     240
atgacgtctc accacaattt cagttattta atttacaata atcaatgctg agttttctgt     300
gctgaagcat gcactgttac agaaagcaca aaatcctatt tacagggatt tttagttttc     360
tttaaaatgt atctcaagca tctttttaaag tgcgagctac aaataggttg tatccttaat     420
gaaaaaggct tctttctaaa agaagtatgg agataggcta tccaatactg cnggcaggaa     480
cagttatata actaaccgaa ggaaccagca gcactctgct aactctgttt tagtgtagca     540
acctccttct tggtgttcta ctaccagcca aacatgtact ccattgcttt ggatacaaga     600
ctttcatctt tttttggcgt ttgtctgtca gaaataacct gataatcact agtagaggct     660
ttgtatgctg tagcaagagg tctcatggta gaaatcctag gagtacttcc aggttgtgtt     720
ggtgtaccta gagtttttgat tggtggtgta aaggctaaag atggagatga taaagcacat     780
ctgtcactgc tttccataac actttttgtca atacatggtt ttacaccaat catgatggat     840
tctccaaaaa tcctcccatc tttgcttaag gctttccgag cctgcagttt agattgataa     900
cgaatatgca tccaatttcc tgtattagac atccacatgt tttaagatat tcccccatac     960
tgtgcaaatt gtaagtaata tgtaggaaag cagatgcctt gaggaaaccc caaatacagt    1020
cacccccaaga gtcatcgagg gtgatcttct gaagtcaaag aatctccttg agtataaaaa    1080
ggatccaact gggcaggaga taatgtcgtc tttcgtggct gaccgatact tgctggacta    1140
aacatacttt gccctgttcc aggagtagat gtaactccaa caagaggact ctgcattact    1200
gaaatgtttg gctgtcttct tgaagttaaa ggtgttgatc caagtcctgg gctagaaatg    1260
tcatcatata tacttctaac tggtggagcg ccacttttat ctttatgagc tggtacaact    1320
ggttgtggtg gtgacccacc tgcaagtaaa ggtgatctca tttccattac tcctactgaa    1380
gggccactaa ttgatcgagg ttgtggagtc accggagctg gcaaatcccc cattaaaaat    1440
ccaggtaaga actgggcatt aactcctggc tttggagatg tgggtgaacc cagcatcatt    1500
ggttcagatc ctaacgcggg cccctgaggt tccactgcaa aggctgccat tgcgtcggca    1560
actacactta aaaccagtac cttcccaatt aattttcaaa aatggcggaa accggacgcg    1620
tgggcggacg cgtgggcgga cgcgtgggtc gttccagggt tatcagtcgg tacgcaggct    1680
ttcagtggca ag                                                       1692




<210> 5720
<211> 3593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3594)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (105)...(3593)
```

        <400> 5720
```
acgccgccgc ctgtgtcatc cgccattttg tgagaagcaa ggcggcctcc acgtttcctg    60
agcgtcttct tcgcttttgc ctcgaccgcc ccttgaccac agacatgtct cgggatcggt   120
tccggagtcg tggcggtggc ggtggtggct tccacaggcg tggaggaggc ggcggccgcg   180
gcggcctcca cgacttccgt tctccgccgc ccggcatggg cctcaatcag aatcgcggcc   240
ccatgggtcc tggcccgggc cagagcggcc ctaagcctcc gatcccgcca ccgcctccac   300
accaacagca agcaacaagc caccaccgca agcagccacc gccgcagcag ccggccaccg   360
catcagcccg ccgccgcatc cacaagcncg catcagcagc agcagccgcc gccaccgccg   420
caggactctt ccaagcccgt cgttgctcag ggacccggcc ccgctcccgg agtaggcagc   480
gcaccaccag cctccagctc ggccccgccc gccactccac caacctcggg ggccccgcca   540
gggtccgggc caggcccgac tccgaccccg ccgcctgcag tcacctcggc ccctcccggg   600
gcgccgccac ccaccccgcc aagcagcggg gtccctacca cacctcctca ggccggaggc   660
ccgccgcctc cgcccgcggc agtcccgggc ccgggtccag ggcctaagca gggcccaggt   720
ccgggtggtc ccaaaggcgg caaaatgcct ggcgggccga agccaggtgg cggcccgggc   780
ctaagtacgc ctggcggcca ccccaagccg ccgcatcgag gcggcgggga gccccgcggg   840
ggccgccagc accacccgcc ctaccaccag cagcatcacc aggggccccc gcccggcggg   900
cccggcggcc gcagcgagga gaagatctcg ggacctcgga gggggtttaa agccaatttg   960
tctctcttga ggaggcctgg agagaaaact tacacacagc gatgtcggtt ttgtttgttg  1020
ggaatctacc tgctgatatc acggaggatg aattcaagaa gactatttgc taaaatatgg  1080
gagaaccagg agaagttttt atcaacaaag gcaaaggatt cggaatttat taagcttgaa  1140
tctagagctt tggcttgaaa ttgcccaaag cccgaactgg gatgatacac cccatgagga  1200
ggtagacagc ttccgagttc gctttttccc acacatgcct gcctgcccct ttcctgttcc  1260
gtaatctttt caccctttat gtttccccaa tgaaactgtt ggggaaggaa gccctttagg  1320
cccaatttgg gtccccattt gaaaggggct gtttgtaata ggtgggatga tccgtgggaa  1380
ggtcctacag ggaaaggcca ttgtttgaat tttgcttcct aagcccagcc agcaaacaaa  1440
ggcattttgg aacgatgcca gtgaaaggtg ttttttcttta cttgacggac aactccctcg  1500
tcccagtcat tggtggaacc cacttggaac caactagatg attgaagatg ggtcttcctt  1560
gaaaaacttg ccccagaaag aaatccaatg tatcaaaaag gggagagaaa cccctcctcg  1620
gtttttgccc cagcatggca ccgtttgagt acgaatattc tcagcggatg aagtcctttg  1680
gatgaaatgg aaaaacagca aagggaacaa gttgaaaaaa acatgaaaga tgcaaaagac  1740
aaattggaaa gtgaaatgga agatgcctat catgaacatc aggcaaatct tttgcgccca  1800
agatctgatg agacgacagg aagaatttaa gacgcctgga agaacttcac catccagaaa  1860
tgcagaaacg taaagaaatg caattgaggc aagaggagga acgaccgtag aagagaggaa  1920
gagatgatga ttcgtcaacg tgagatggaa gaacaaatga ggcgccaaag agaggaaagt  1980
ttacagccgg aattgggcta ccttggatcc cacggggaan agagacatgc gaatggggtg  2040
gcggaggagc aatgaacatg gggagattcc tatggttcca ggaggccaga attttccacc  2100
tcctaggagg tggtgggtgg cataggttat tgaagctaat cctgggcgtt ccaccagcaa  2160
ccatgagttg ttcccatgat ggggaagttg acatgcgtac tgagccgctt tggacagggg  2220
aggtncgggg ccttgtgggt gaacaggtcc ctagagggaa tggggcctgg gaacttccca  2280
gcaagaatat gggtagaagg gagagaagga gtccgaaggc cccaaacaaa aaaaccccga  2340
ttttagatgt gatatttagg ctttcattcc aggtttgttt tgttttttttg tttagatacc  2400
aatctttttaa attcttgcat tttagtaaag aaagctatct ttttatggat gttagccagt  2460
ttattgacct actatttgta aaatggtctg tttgggcagg taaaattatt gttattgcag  2520
tttttggacc aggggaattt ttttttcctt tttatttctt taatttttcc ttttttactg  2580
taataatgtc cctcaagttt atgggcagtg taccttgtgc cactgaattt ccaaagtgta  2640
ccaattttttt tttttttttac tgtgcttcaa ataaatagaa aaataggtta taatattgat  2700
cttcaacttt gccattcatg cttctatgca tattaggcta cgtattccac attgaaagca  2760
tgagagtgtc taggcctttg aatggcatat gccatttctg ggaaatgcat ctggaggcta  2820
agtattgctt tctacaaata attgccccct ttgtttttaaa aagaagaaat gcatattgaa  2880
gtagtttgat gatttgtttg gcatatagga agcacgctgg tgctaagtat ttttttaaatg  2940
gttatgtaag caaagctgaa ctgtaaatct tcaggaatat gtattaagat tgtggaatgg  3000
```

```
gtgtaagaca attggtaggg ggtgaaagtg ggtttgatta aatggatctt ttatggccct   3060
atgatctatc ctttacttga aagcttttga aaagtggaaa ggtcattttg ttgcatttcc   3120
ccatttcttg tttttaaaag accaacaaat ctcaagccct ataaatggct tgtattgaac   3180
ttttacattt gaattaaaga tgttaaacat gaagtctttt catgtattca agtgatttat   3240
aaagatgggg tgtagtctaa aaaacaatac ttgaaagtaa gaaggtttag ccaccacgcc   3300
tggcctctta atttctttta gcaacatttt gtagttttca gtgtatgagt ctttcacctc   3360
ctgggttaag tttattccca agtattttat tttatcttat tatttattta tgtattttga   3420
aacagtctta ctctgtcacc caggctggag tgcagtggct caatctcggc tcactgcaaa   3480
cctccacctc ccaggttcaa gcgattctcc tgcctcagcc ccccaagtag ctgggattac   3540
aggtgcttgc cactacacac ggctaatttt tgtatttttg ggtgacagag caa          3593
```

```
        <400> 5721
cagcgactcc tctggctccc gagaagtgga tccggtcgcg gccactacga tgccgggagc     60
cgccggggtc ctcctccttc tgctgctctc cggaggcctc gggggcgtac aggcgcagcg    120
gccgcagcag cagcggcagt cacaggcaca tcagcaaaga ggtttattcc ctgctgtcct    180
gaatcttgct tctaatgctc ttatcacgac caatgcaaca tgtggagaaa aaggacctga    240
aatgtactgc aaaattggtag aacatgtccc tgggcagcct gtgaggaacc cgcagtgtcg    300
aatctgcaat caaaacagca gcaatccaaa ccagagacac ccgattacaa atgctattga    360
tggaaagaac acttggtggc agagtcccag tattaagaat ggaatcgaat accattatgt    420
gacaattaca ctggatttac agcaggcgtt ccagatcgcg tatgtgattg tgaaggcagc    480
taactccccc cggcctggaa actggatttt ggaacgctct cttgatgatg ttgaatacaa    540
gccctggcag taacatggct gttacagaac acggaagccc taacgcctta accaaattaa    600
tccccggaat tggggcaccg tcaaaatgcc caagattgag taggtcatct gcacttcatt    660
ttactccaag atacacccct tagaaaatgg agagattcac atctctttaa tcaatgggag    720
accaagtgcc gatgatcctt ctccagaact gctagaattt acctccgctc gctatattcg    780
cctgagattt cagaggatcc gcacactgaa tgctgacttg atgatgtttg ctcacaaaga    840
cccaagagaa attgacccca ttgtcaccag aagatattac tactcggtca aggatatttc    900
agttggaggg atgtgcatct gctatggtca tgccagggct tgtccacttg atccagcgac    960
aaataaatct cgctgtgagt gtgagcataa cacatgtggc gatagctgtg atcagtgctg   1020
tccaggattc catcagaaac cctggagagc tggaactttt ctaactaaaa ctgaatggga   1080
agcatgcaat tgtcatggaa aagctgaaga atgctattat gatgaaaatg ttgccagaag   1140
aaatctgagt ttgaatatac gtggaaagta cattggaggg ggtgtctgca ttaattgtac   1200
ccaaaacact gctggtataa actgcgagac atgtactgaa ggcttcttca gacccaaagg   1260
ggtatctcca aattatccaa ggccatgcca gccatgtcat tgcgatccaa ttggttcctt   1320
aaatgaagtc tgtgtcaagg atgagaaaca tgctcgacga ggtttggcac ctggatcctg   1380
tcattgcaaa actggttttg gaggtgtgag ctgtgatcgg tgtgccaggg gctacactgg   1440
ctacccggac tgcaaagcct gtaactgcag tgggttaggg agcaaaaatg aggatccttg   1500
ttttggcccc tgtatctgca aggaaaatgt tgaaggagga gactgtagtc gttgcaaatc   1560
cggcttcttc aatttgcaag aggataattg gaaaggctgc gatgagtgtt tctgttcagg   1620
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4257

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ggtttcaaac agatgtcaga gttcctactg gacctatggc aaaatacaag atatgagtgg   1680
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gcttatgatt atcttagagg gtaatgactt gagcatcagc acagcccaag atgaggtgta   1980
cctgcaccca tctgaagaac atactaatgt attgttactt aaagaagaat catttaccat   2040
acatggcaca cattttccag tccgtagaaa ggaatttatg acagtgcttg cgaatttgaa   2100
gagagtcctc ctacaaatca catacagctt tgggatggat gccatcttca ggttgagctc   2160
tgttaacctt gaatccgctg tctcctatcc tactgatgga agcattgcag cagctgtaga   2220
agtgtgtcag tgcccaccag ggtatactgg ctcctcttgt gaatcttgtt ggcctaggca   2280
caggcgagtt aacggcacta ttttttggtgg catctgtgac ccatgtcagt gctttggtca   2340
tgcggagtcc tgtgatgacg tcactggaga atgcctgaac tgtaaggatc acacaggtgg   2400
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ccatttagac cggagtcttg gattgatctg tgatggatgc cctgtcgggt acacaggacc   2580
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tggacaatgt tggtgccaac ctggagtcac agggaagaaa tgtgaccgct gtgcccacgg   3060
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taaatgtgca cccaatacct ggggccacag cattaccact ggttgtaagg cttgtaactg   3240
cagcacagtg ggatccttgg atttccaatg caatgtaaat acaggccaat gcaactgtca   3300
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aggaaagaag ttgatggcct atggggggcaa actcaagtat gcaatctatt tcgaggctcg   3840
ggaagaaaca ggtttctcta catataatcc tcaagtgatc attcgaggtg ggacacctac   3900
tcatgctaga attatcgtca ggcatatggc tgctcctctg attggccaat tgacaaggca   3960
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agctacttat ggaaatttca tgcgacaaag caggatttct gaaatctcaa tggaggtagc   4140
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tcccctgggc tattctggcc tgtcctgtga ggcatgcttg ccgggatttt atcgactgcg   4260
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ctcctgccaa gaatgtgagt gtgatcccta tggctcactg cctgtgccct gtgaccctgt   4680
cacaggattc tgcacgtgcc gacctggagc acgggaagg aagtgtgacg ctgcaagca   4740
ctggcatgca cgcgagggct gggagtgtgt ttttgtgga gatgagtgca ctggccttct   4800
tctcggtgac ttggctcgcc tggagcagat ggtcatgagc atcaacctca ctggtccgct   4860
gcctgcgcca tataaaatgc tgtatggtct tgaaaatatg actcaggagc taaagcactt   4920
gctgtcacct cagcgggccc cagagaggct tattcagctg gcagagggca atctgaatac   4980
actcgtgacc gaaatgaacg agctgctgac cagggctacc aaagtgacag cagatggcga   5040
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                                      4258

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gcagaccgga caggatgctg agaggaccaa cacaagagca aagtccctgg gagaattcat    5100
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tctaggaact cgagacgagg cctttgagag aaatttggaa gggcttcaga aagagattga    5220
ccagatgatt aaagaactga ggaggaaaaa tctagagaca caaaaggaaa ttgctgaaga    5280
tgagttggta gctgcagaag cccttctgaa aaaagtgaag aagctgtttg gagagtcccg    5340
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cctatttgca gtaaatcaga aaaacatgac tgcattggag aaaaagaagg aggctgttga    5520
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caaccgtctt gcagatgaaa tcaactccat catagactat gttgaagaca tccaaactaa    5640
attgccacct atgtctgagg agcttaatga taaaatagat gacctctccc aagaaataaa    5700
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ctcatctgct gtccttgatg gaatccttga tgaggctaaa aacatctcct tcaatgccac    5820
tgcagccttc aaagcttaca gcaatattaa ggactatatt gatgaagctg agaaagttgc    5880
caaagaagcc aaagatcttg cacatgaagc tacaaaactg gcaacaggtc ctcggggttt    5940
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gaagttagca aatgatgtaa aagaaaatga agaccatcta aatggcttaa aaaccaggat    6060
agaaaatgct gatgctagaa atggggatct cttgagaact ttgaatgaca ctttgggaaa    6120
gttatcagct attccaaatg atacagctgc taaactgcaa gctgttaagg acaaagccag    6180
acaagccaac gacacagcta aagatgtact ggcacagatt acagagctcc accagaacct    6240
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cctaaagaaa aacatctctg agataaagga attgataaac caagctcgga aacaagccaa    6480
ttctatcaaa gtatctgtgt cttcaggagg tgactgcatt cgaacataca aaccagaaat    6540
caagaaagga agttacaata atattgttgt caacgtaaag acagctgttg ctgataacct    6600
cctcttttat cttggaagtg ccaaatttat tgactttctg gctatagaaa tgcgtaaagg    6660
caaagtcagc ttcctctggg atgttggatc tggagttgga cgtgtagagt acccagattt    6720
gactattgat gactcatatt ggtaccgtat cgtagcatca agaactggga gaaatggaac    6780
tatttctgtg agagccctgg atggacccaa agccagcatt gtgcccagca cacaccattc    6840
gacgtctcct ccagggtaca cgattctaga tgtggatgca aatgcaatgc tgtttgttgg    6900
tggcctgact gggaaattaa agaaggctga tgctgtacgt gtgattacat tcactggctg    6960
catgggagaa acatactttg acaacaaacc tataggtttg tggaatttcc gagaaaaaga    7020
aggtgactgc aaagggatgc actgtcagtc ctcaggtgga agatagtgag gggactattc    7080
aatttgatgg agaaggttat gccattggtc aagcccgtcc cattcgctgg taccccaaca    7140
tctccactgt catgttcaag ttcagaacat tttcttcgag tgctcttctg atgtatcttg    7200
ccacacgaga cctgagagat ttcatgagtg tggagctcac tgatgggcac ataaaagtca    7260
gttacgatct gggctcagga atggcttccg ttgtcagcaa tcaaaaccat aatgatggga    7320
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tgaaagcaag gccagaagta aatctgaaga aatattccgg ctgcctcaaa gatattgaaa    7560
tttcaagaac tccgtacaat atactcagta gtcccgatta tgttggtgtt accaaaggat    7620
gttccctgga gaatgtttac acagttagct ttcctaagcc tggttttgtg gagctctccc    7680
ctgtgccaat tgatgtagga acagaaatca acctgtcatt cagcaccaag aatgagtccg    7740
gcatcattct tttgggaagt ggagggcacac cagcaccacc taggagaaaa cgaaggcaga    7800
ctggacaggc ctattatgta atactcctca acaggggccg tctggaagtg catctctcca    7860
caggggcacg aacaatgagg aaaattgtca tcagaccaga gccgaatctg tttcatgatg    7920
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tcgttggggg tgctccacct gaatttcaac cttccccact cagaaatatt cctccttttg    8100
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tagggagcaa gcagttcggg ctttcaagaa acagtcacat tgcaattgca tttgatgaca    8400
ccaaagttaa aaaccgtctc acaattgagt tggaagtaag aaccgaagct gaatccggct    8460
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tgcttttta   catggctcgc   atcaatcatg   ctgattttgc   aacagttcag   ctgagaaatg      8520
gattgcccta   cttcagctat   gacttgggga   gtggggacac   ccacaccatg   atccccacca      8580
aaatcaatga   tggccagtgg   cacaagatta   agataatgag   aagtaagcaa   gaaggaattc      8640
tttatgtaga   tggggcttcc   aacagaacca   tcagtcccaa   aaaagccgac   atcctggatg      8700
tcgtgggaat   gctgtatgtt   ggtgggttac   ccatcaacta   cactacccga   agaattggtc      8760
cagtgaccta   tagcattgat   ggctgcgtca   ggaatctcca   catggcagag   gcccctgccg      8820
atctggaaca   acccacctcc   agcttccatg   ttgggacatg   ttttgcaaat   gctcagaggg      8880
gaacatattt   tgacggaacc   ggttttgcca   aagcagttgg   tggattcaaa   gtgggattgg      8940
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gtagtcaaaa   aatggatgga   atgggtattg   aaatgattga   tgaaaagttg   atgtttcatg      9060
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gtgatggaca   atggcataaa   gtcactgcca   acaagatcaa   acaccgcatt   gagctcacag      9180
tcgatgggaa   ccaggtggaa   gcccaaagcc   caaacccagc   atctacatca   gctgacacaa      9240
atgaccctgt   gtttgttgga   ggcttcccag   atgacctcaa   gcagtttggc   ctaacaacca      9300
gtattccgtt   ccgaggttgc   atcagatccc   tgaagctcac   caaaggcaca   ggcaagccac      9360
tggaggttaa   ttttgccaag   gccctggaac   tgaggggcgt   tcaacctgta   tcatgcccag      9420
ccaactaata   aaaataagtg   taaccccagg   aagagtctgt   caaaacaagt   atatcaagta      9480
aaacaaacaa   atatattta   cctatatatg   ttaattaaac   taatttgtgc   atgtacatag      9540
aattctttct   gtattcagat   ggtgctaatt   cagactccag   actgaatttt   aattcaagtt      9600
ctttctcaag   tctataaata   atattaaact   gattatttca   ttctaaaaaa   aaaa            9654
```

<210> 5722
<211> 1639
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (18)...(1140)
<223> similar to gi403144 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5722
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gcggtggaat   tccgaggatg   gccgtcatgg   cgccccgaac   cctcctcctg   ctactctcgg        60
gggccctggc   cctgacccag   acctgggcgg   gctcccactc   catgaggtat   ttctacacct       120
ccgtgtcccg   gcccggccgc   ggggagcccc   gcttcatcgc   cgtgggctac   gtggacgaca       180
cgcagttcgt   gcggttcgac   agcgacgccg   cgagccagag   gatggagccg   cgggcgccgt       240
ggatagagca   ggaggggccg   gagtattggg   accaggagac   acggaaagtg   aaggcccagt       300
cacagactga   ccgagtggac   ctggggaccc   tgcgcggcta   ctacaaccag   agcgaggccg       360
gttctcacac   catccagagg   atgtatggct   gcgacgtggg   gtcggactgg   cgcttcctcc       420
gcgggtacca   ccagtacgcc   tacgacggca   aggattacat   cgccctgaaa   gaggacctgc       480
gctcttggac   cgcggcggac   atggcagctc   agaccaccaa   gcacaagtgg   gagacggccc       540
atgaggcgga   gcagtggaga   gcctacctgg   agggcacgtg   cgtggagtgg   ctccgcagat       600
acctggagaa   cgggaaggag   acgctgcagc   gcacggacgc   ccccaaaacg   catatgactc       660
accacgctgt   ctctgaccat   gaagccaccc   tgaggtgctc   gggccctggg   cttctaccct       720
gcggagatca   cactgacctg   gcagcgggat   ggggaggacc   agacccaagt   acacgaagct       780
cgtgcagacc   aggcctgcag   gggatggaac   cttccagaag   tgggcggctg   tggtggtgcc       840
ttctggacag   gagcagagat   acacctgccc   atgtgcagca   tgagggtttg   cccaagcccc       900
tcaccatgag   tatggtagcc   gtcttccag   cccaccgatc   cccatcgtgg   ggcatcattg       960
ctggccctgg   ttctcctttg   gaagctgtga   atcactggaa   gctgtggtcg   ctgcctgtga      1020
```

                                    4260
```

```
atgtggagga aggaagagct caggtggaga aggggtgaaa gatagaaaag ggggggagct    1080
actcttcaag gctgcaaagc cagtgacaag tgcccagggg ctctgaatgt gtctctccac    1140
aagctttgta aaagtgttga dacagcctgc cctttgtgtg ggactgatga ggcaaagagt    1200
ttgttccctg cccatttcccc ttgtgacctt gaaagaaccc ctgactttgt ttcctgcaaa    1260
aggcaccctg catgtgtcct gtgttccgtg taggccataa tgttaaggag gttgggggaga    1320
cccacccccca ccccccatgt cccacccatg accctcttc cccacgctga cctgttgctc    1380
cctcccccaa tcatctttcc ctgttcccag agaggtgggg cttgaggtgt ctccatcttc    1440
tgtcttcaac ttcatgtgtg cactggagct gtaaattctt tccttcccta ttaaaattta    1500
gaacctgagt ataaatttac tttctcaaat tcttgccaat gagaggttga tgagttaatt    1560
aacaggagaa gattcctaaa atttgaagag acaaaataaa tggaagacat gacgaacctt    1620
ccagagtcca aaaaaaaaa                                                 1639
```

```
      <400> 5723
tttttttttt ttggaacctc gggccacaca gctcaggcac acaccatcgg ggctactggc     60
tgcttggagt ttattttccg cttggtgcca ggtgcacagt tccaggtgtc aggaaagcta    120
gcgagtgctg gggccgggcg gtagagagcg gggctctcac tggtttttgg tgtctgctgt    180
gttgatgcga aggtctgctt gctgcagccg cctagtttac agggtggggg gtgggaggtg    240
gggagggggg cgagggatgc ggagtgggga gagggcgggg gagggctct ggtggactag    300
cgcctccgca ggccgtgggg ctcggtggta accgctcagg tcaggacggg ggcccagcgc    360
tggctgtgct ggactgaccc cccgggtctg cttcctcggg gcgtcccgag cccaggccac    420
aggcggtcat gctgctggag gcctggggag gttccgagtg ctctgcggac tccaacaccg    480
tggcccatga acgggagggt ggacttcccg aaaaagaagc tggcccacca atgacccggg    540
tcagccttgg ggagacctgg ggggtgggga atggcttccc cggggcactc ggtactgctg    600
caggagctgt tgctggaagt ggaacccagg cggcgccggt agtagtcgtg ggtggccacg    660
agcgagccgc tggaggggat ggccgccatg ctttagcttg ctggctggtg ggatctgggc    720
ggcgacccct cgcgggcctc ggcgcacgat cacgggtggc ggggacgggg gcggctaggc    780
cacggagccc atttgcagag aagaccgcgg gaagccgcgc cacgacagag aggcgcgcgc    840
ggggt                                                               845
```

<221> misc_feature
<222> (1211)...(294)
<223> similar to gi4928064 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5724
ttttttttttt ttcacacacc agcacgtccc acctcgtgct cacggatttt attacacaga   60
tagtggcggc aatggcctca gcccagccca ccctcacctg cttttccagc ccacaaaggg   120
ggacgatcac ggcccagcaa aagcgatgct gagagggggaa acagtccaga gtccaacagc   180
agaacttggg ggaagcggtc ggggtggcca ggaacataaa ctatgtatag gggccggggg   240
cttctgccca gggctcccct ggaccaggac gccaggtagg gcagggaacc tcagtagtcc   300
tccacccagc cattctcaga gatgaatgcg tcaataacct ccttcatagc caagttgggg   360
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aggtgctcct cgatgtcctt gcggtcgtag gtgatgccac tgggcgtgat gcacggctcc   480
cgcatcagct caaagctgat cttgccacac aggtagtcgg ggatgtctcg cttcttcctc   540
ttctcatcca cctgagaaaa aagctcgtcc atgtccgcca tgtacttgtc gtgcttggcc   600
tcaatgcagg cctgctgggc ccggacgtgg ctgtcgtcct catcaccctc gtggtttcgc   660
tagctctctt ccagctccct ctcaccgctt ccgcggcatg aagcctggag aggtaggagt   720
gcagctcgct ctcctggtgg atgcgccgct cctcaatgct gttccagcgc ttcttcttcg   780
cgaattcgaa agagcgcttg ggattgtcgt tccccgaagt tcagccgctt gttcctttgg   840
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ggcagtcggc cagggcctgc tcgtgctgct gcatcttcag gtagcacaag gcccggttgg   1020
tgtaatacac ggccaccagc gggttccggg tgatcgcgcg gccgtagcag gccgccgcct   1080
ccgggtactt tcggcccacg aacagacgat tgccctgctc cttgagctcc tgcgcgctcg   1140
ggctcttctc ggggcttccg ccgccagcgc ccagccgtgc gccgccctcc ttctcctcct   1200
tgcccttcat ggcgccgcgc ggcacggcct gggctccgct cccaagctcc gcgcctcgcg   1260
gcccagcgcc cgcagccgga gccccgcagc ccgagcccgc gatccgctcg ggcccggccc   1320
aggtccccc gccggaactt ccggccgggg gcgggaccag cggggacgca cgcgtggggg   1380
cgagtggggc cgcgcgtgcg cccaaccagc ctggacgggg acactgggcc cgcgacgtcg   1440
ggggctggga ggaacgctcc agttccctgt ccccgcgctc ttaagggtgg gcgttcgcgt   1500
aggccctggc ctgccctgct gaggtctctt cggcacccgc ctcggcggcg ccgc   1555

<210> 5725
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (570)...(131)
<223> similar to gi5104682 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5725
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tcagagcgcg gcccggagcc gcactaagag cgctggacgg cgggagagag gctcggagga   120

4262

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ccggtagctc ccagcaaagc ggcccagcgg atgtcgggag ctatcttcgg gcccctggag    180
ggcccgagct ccctggatgc cccgagcatc cacccgctgg tgtgcccgct gtgccacgtg    240
cagtacgagc gcccgtgtct tctggactgt ttccacgact tctgtgccgg ctgcctgcgt    300
ggccgcgcga ccgacggccg cctcacctgc ccgctgtgcc aacaccagac ggtgctgaag    360
ggtcccagcg ggctcccgcc ggtggaccgg ctgctgcagt tcctggtgga cagctcaggg    420
gatggcgtgg aggcggtgcg ctgtgccaac tgtgacctgg agtgcagcga gcaggcaggg    480
gcggcagggc gggtgggtga ggagcaaagg gtacccggtt gcacagtccc caatgcttgc    540
acatgcactc agcatgtctt cagaggacga cctggcagtg gattctccag cacctcccta    600
gggcaccttg gccccaaatg tgaaccccat tataccggtg gggagactga ggtccagaac    660
aagggacttg agccagtgtc cagacagtgg cagaggctaa ggccattcga tctggggaga    720
gctcactggt ccccaattca ggg                                           743
```

```
<210> 5726
<211> 946
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(947)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (875)...(14)
<223> similar to gi296669 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
<400> 5726
ccgccgggtg cgcggcttcg ccgcccgagg tcgttcggct cgggtaccat cctccgcgcc     60
atggacacca gcgacctgtt cgccagctgc aggaaggggg atgtgggccg agtgcggtga    120
ggacctcgca gtcccgggga gggtgcggga ggtggccgcc ctcggaacgc ctcgggccct    180
gggacgggcg gctgggcggc cgcggagagg cgggcgcctc tgccgggtca cagccctcgg    240
agcgcccccg cggggcagac cacccggacc cccgccgcag ccccccagcg gaagcgcgct    300
ggggcgggga cactgatggc cattgacccc cggagggctt cctgtaagaa gggactgctc    360
agcggaggtc cgaaggcgca gaagtgggcg gagagaaggc gggccactgt tcgccctggt    420
agggcccgga cgtcagaccc cccgggcgca gggcgcgggt ataggcctgg gactccagac    480
gtggcccctt tctctcgtgc tctctggacc tggcgcgggg aacacctaga gcccataatc    540
ggcctccggt ccctgaggat tcggaaactc ctgacgcagc taaagtgaat ctggcgctga    600
gatgcccccт ccatgggccg gacgcggagg gaaggggtgc ccagttgggt tctggggccc    660
ttcccctcct tgggcttcca ctatcccgtt tgacctcctt ttttcttggc ccttcctccc    720
ccttgacctg gtgctgactg actgcttcca cctcccctgg gctggcgccg ggctgctgta    780
ctcccgtagc ctccctgggc cgctccctga catcccgtgc cactcaagag ttagtgcata    840
gtgtcaacgc tgagtgggtt cacagcactt ccaggtgcag cctggaggcc tcctttgggc    900
tgcccccgcc acgaaatcgt cgacccggaa attccggncg ttgtat                  946
```

<210> 5727
<211> 2338
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (934)...(1411)
<223> similar to gi1707262 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5727
```
tcctgaattc ccgggtcgac gatttcgtcg gcggcccgcg gcggaccatg gccctggccc    60
ggcgtcgctg ggctttcctc acggcgtccc cgagcagcgt cgcagagcgg gccgacttcc   120
gggaaggaac tgaccagcga ctgagcggcg gccggcgcgc ttagcgccct gaacatgcgg   180
cagtccctgc gggcgacccc gggctccgga caggcggcgg cggaggcggc ggctcgggag   240
ggaaggaggc ggcggcgccg gcggaggtgg cggcggagac ggccggcgcc cggcgcggag   300
ccctagggag gcagttcagc gcggcctcgg gcctcgtcga gaaggatgct gtcccgaaag   360
aaaaccaaaa acgaagtgtc caagccggcc gaggtgcagg ggaagtacgt gaagaaggag   420
acgtcgcctc tgcttcggaa tcttatgcct tcattcatcc ggcatggtcc aacaattcca   480
agacgaactg atatctgtct tccagattca agccctaatg ccttttcaac ttctggagat   540
ggagtagttt caagaaacca gagtttcctt agaactccaa ttcaaagaac acctcatgaa   600
ataatgagaa gagaaagcaa cagattatct gcaccttctt atcttgccag aagtctagca   660
gatgtcccta gagagtatgg ttcttctcag tcatttgtaa cggaagttag ttttgctgtt   720
gaaaatggag actctggttc ccgatattat tattcagaca attttttttga tggtcagaga   780
aagcggccac ttggagatcg tgcacatgaa gactacagat attatgaata caaccatgat   840
ctcttccaaa gaatgccaca gaatcagggg aggcatgctt caggtattgg gagagttgct   900
gctacatctt taggaaattt gactaaccat ggttctgaag atttaccct tcctcctggc   960
tggtctgtgg actggacaat gagagggaga aaatattata tagatcataa cacaaataca  1020
actcactgga gccatcctct tgagcgagaa ggacttcctc ctggatggga acgagttgag  1080
tcatccgaat ttggaaccta ttatgtagat cacacaaata agaaggccca atacacggca  1140
tccctgtgct cctacgtgta cctcggtatg atcaaccacc tcctgtcaca taccagccac  1200
agcaaactga aagaaatcag tcccttctgg tacctgcaaa tccatatcat actgcagaaa  1260
ttcctgactg gcttcaggtt tacgcacgag cccctgtgaa atatgaccac attctgaagt  1320
gggaactctt ccagctggct gacctggata cataccaggg aatgctaaag ttgctcttca  1380
tgaaagaatt ggagcagatt gttaaaatgt atgaagcata cagacaagcc cttcttacag  1440
agttggaaaa ccgaaagcag agacagcagt ggtatgccca acaacatgga aaaaattttt  1500
gagctgattt tttaaaaatt taagttttgt aagagcttta aaatattttc acagataaaa  1560
aattgcaaac aagtactctg gttaataaat gctgcttcct ttgtggaaat tataaaattc  1620
taactttaca tgtattttgt tattagaaat tttcttttat tgaatgagaa aaattagtct  1680
atcattttaa gagccaatat ggcaaacact ttcaaatact gtatattagg aaactgtttt  1740
ggtattcttg atggaaaaaa atgcagcgga aatgtcatta tgaacagatg ttaaatagga  1800
aattattact tgttaacttc ttacagcagt agtaccttct ttaaaaaaaa aaaagaatct  1860
gcggtatttt tttaaaaaaa aagtttactg ctgtagtgtg aaatattgtc tggaaaggga  1920
tggtttaaat attaccatga tgtagttgaa atataaaata ggatttggaa ccttattgtg  1980
ataaatattt atatatgatg tatgtttgtc tcccctctcc aaagtaagga acccagctgg  2040
gcgtggtggc tcactcctgt aatcccagca ttttgggagg ccgaggtggg tggaccgctt  2100
gagtccacga gtttaagacc agcctgggca acatggtgaa gccccatctc tacaaaaaat  2160
acaaaaaaat tagccgggta tgatggtgtg tgcctctagt cccagctact gggaggctg   2220
aggtcagagg atggcttgag cccaagaggc agaggttgca gggtcaagat cgcaccactt  2280
gcactgcagc ctgagagaga gagagccaga ccttgtctca aaaaataaaa aaaaaaa     2338
```

<210> 5728
<211> 1055
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (514)...(1046)
<223> similar to gi3337385 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5728
aagtcagcag gcagtaagca agatgaggaa tcaatatagc aacagtttgg atcagactgt   60
acagtttttt tttgtttttc tgagatggag tctcgctgtg tcacccaggc tggagtgcaa   120
tgacgtgacc ctggctcact gcaacctccg cctcccaggt tcaagtgatt cccctgcctc   180
agcctcccga gtagctggga ttacaggtgc ctgccaccac gcccggctaa ttttttgtat   240
ttttagtaga gacggggttt caccgtatta gccaggatgg tctcaatctc ctgacctcgt   300
gatccatccg ccccgccctc ccagagtgct gggattacag gcgtcacacg cgctgaccgg   360
ctcagactgt actcttctag ccatctgaaa tacgttttct aggtagagat agattgtgta   420
agggtacagt tatgaggata acagaaacgt ggcagattat ttaaaatcat cctgaaagtg   480
gtgctttatc tgatgaaagt gattgtaatc cataggaaaa tgtttcaacg tgcgcaagag   540
ttgcggtggc gggcagagga ctaccacaaa tgcaaagctt tttcagatca ccccctctgc   600
aagaaagcct ctttgcaact gggtcagaat ggcggcagcg gagcatcgtc attcttcagg   660
attgccctgc tggccctacc tcacagctga aactttaaaa aacaggatgg gccgccagcc   720
acctcctcca actcaacaac attctataac tgataactcc ctgagcctca agacacctcc   780
cgaatgtctt cttattccct ttccaccctc tcctcttcca ccctccgtgg atgataatct   840
caagactcct cccttagcta ctcaggaggc cagaggcaga aaaatcactg aaacccaaga   900
ggcagaggtt gagtaagctg agaacaggtc attgcactca agcctgggca ataagaagaa   960
atgtgtgagt ggaacaaaag aaaaaaatca aaaacaaaa caaaacccac actccaaaaa   1020
caaactaaca aagaataaat aaataatata aaaat   1055

<210> 5729
<211> 1642
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1221)...(224)
<223> similar to gi1707507 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5729
tatggcacga gtcagaattt atctatttag agataactta aatacaacac agaagctaag   60
caggttctta aaattactgg tgtctacaaa ctgcctgaat ttttgtcttt gctagttagt   120

```
ttcaccctgc actgctagaa agaagcaaca acagtcagta tgtcattctt caacatttaa      180
tggtgccaca gggttaaata atggccttac ttttttggcc tgaattttgc caaaattagc      240
ttcaaactct tttttgatc catttagatt tgctagatgt ccatccttta ttctgtagcc      300
tgaggaattc agtttcctta tcctgtactg tactatctgt ggtgttaatt caagaaccat      360
tggcgtctct cttatctgag ctatggaaat tccttctctc aataatcctt gcattctctc      420
ttctaaaact ggaacagaat aaatataaag ggcaggacat ttcaaaacta attgcttcag      480
gtcatgatct gtgcatttaa aagcattttt agagaaggaa atactattct gtatacttct      540
tgggcaaagt tgaaaaagaa atcctttgag tttggataga agctggagaa ttttcaaagct      600
ggtgaaacct tgctcctgga gaaattctag tgtttccttt atagctgtgg gagaatttaa      660
caaaataaat gggttttggc ttaacaattt tagtagccaa actttcatgt tggcctcaga      720
gccacctaca tctagataac tctcttggag aattcttacc atttgcttat tcttctcaac      780
aggattatga aaaacattag gtgcagctgt caaaagtctg ctaatgacca catttttttag      840
tcccaactct tgaaagaact gaacattcag cttctggttc tcttggtctt taatagtaaa      900
gaaagattct ggaaactgct ctattaactt gattaactct tcctcatttt tgcagaccaa      960
ctgccagagt tttctctggg tgttaacagc ggttggacta cagacaattg cttccgggca     1020
gcgttccaaa atactggcta cagcagtctc atcggcacct agttcttgta aaatattcgc     1080
aatttcttca acataggttt catcctctaa aagtacccat cctttaatc tacgaatttt      1140
cctaatgtca actgaacatt tatagagctt ttccactgtt cttgtatttt ctttgctcga     1200
ctgtttatca gttgtatagg tgaagcatgc taagaaaggt ctgtattttg gaggtgatcg     1260
catctttctg aaagaacaca gcctgcagga ctgggatctc agcagcagct tccacaacat     1320
ggctgcaatc tactagctag tttccaccgt cctgggactt aaatggactc attctatctt     1380
acagtctctc cccacagatc ttgtcctcat ccagatattc agttcatcca cttgggattc     1440
tttccaactt cttctcaaaa tgtgatcttg tcagttccct gcaataaacc gtcggcgtca     1500
gctccaagca aggcacaggg agtcccgggg gccaggcccc gtccttccct ctctctccgg     1560
ccagcctccc cacagtccgc agtccccgag gcctggagcc gggatttcgg tcctcggtct     1620
caagaagctc ccgacagttc tc                                             1642
```

<210> 5730
<211> 3005
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3006)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2534)...(1270)
<223> similar to gi4884303 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 5730

```
ttgaagttta ggtaacattt cctttcctca aaggataaat gattcagaag gaatatatgg       60
taattatgta aaaaaacaaa aacaaaaaac cctcatgttt cccagtttta accgtaaaaa      120
cagaaatcct taaaacacat acatacactt aggaggaaaa aggagatgaa tgcccaatgt      180
ccattagcaa gtgttaccga ctaattctat aatctagttt tttctagtta tatcccaaag      240
ttcccaagtt tagtcctaaa attttctttc tgtacattta cccatttgaa caacatcaac      300
attaaataac taaaacaaga tggtccataa aattctttct atagattgtt ggctgaaagt      360
```

4266

```
ctcatttcta aaactagtac ttcagtattc cgaaaagctc tctctgcgtc ttttcatttc     420
tattagtatg tttaggacat aaagcattaa aataaggcta ctgctaatgt accaaaatcc     480
atgttccaga aaggaaaaaa aaaaactaat aattatcatg tttgaaaggt atgtattta     540
ttactcttgc aggtattttg gacaaaaata ttgaccagct aattatgctc ttccacacat     600
catgttcact gagtttacta ccacagtttt agtgcaacaa aatatctttg aaaagccact     660
ctacagtaat tatggcaagg ctcattaata tgcagaggta aagatttcat ttgtatagaa     720
acttagaaaa taatgtttga aaaggaaagc cattccatca ggctaaatat ttttttgtata     780
ttaaaaaata tatataaata tttcttgaat tagtttttata gtcaattttg atgcagtgtc     840
attgagtggt gataaatttt gagaggtata tgttaaacaa acaccatacc tggagattat     900
agtcttaggt aaacatttaa atacacaatg tcaaggtagt cccccttta aaaaatttt     960
gtacccaagt aagtcataca tttaatgttg acatttcttc ttacctgtgt gcctcacacc    1020
aataaagtac tctgcattaa aatttaaatc ttgagacagt agtacagcat tgaaaaaaaa    1080
ttgtaaagca gcttagatac actgaactca gattttacat tttcatttgt cagattagaa    1140
tataaaaagt aagcttgaaa atcaacttga aaaagcttat tcttcctcaa gaaaaagtat    1200
gaacaatctg aaaatgatca actagtgtga atgaacattg tacatagtta agtcacattc    1260
agtggttgct aaacatacca ctccctcctg gaattacgg aaccatctac atgtgaaact    1320
aagtcatctt cgttttcatc ataatgttca tcactgacaa acttcattcc catttttaga    1380
tcttcataat aatccattgg tctttcaaac ctattgagat tttctacatt gttccactga    1440
gttttttcag gctcttctaa atagtcttta cgtattagat tgttcactgg atttttgttt    1500
tctttttta cactgtctgg gtaaggatca agctcatctt gttgaagaac atctatttgt    1560
gattcttttt gcatatctga tggtggaatg tagttcttgg caaagtagtc tccacgaaac    1620
gtccgtcttc tcctatagca gaatatcccc agcccaaaac acttaacaag taactatgaa    1680
gagagccccc accccactac actaggcaat gatcgtgggc aattgtgtcc atcccttaat    1740
tgttgcccaa agttgacaat ggggaagggg caattttta gggttctgtt gctaggatcc    1800
ctcgatgttc aggcagttga gggggatgcc cactggaatt gtagggctgg aagggtggg    1860
taggtaggta gggagggatc ttgaaatgta ggatggactt tttgggtcac ttctttgac    1920
ccaggggaat ttggtcactt tacagatata aacaccagaa taattgaaag tcaatggatg    1980
gacaaaatga agagtattgt ctgaagccaa taaaccatca ggccattgtc catccaacct    2040
gctccacaca gatttgaagg gtggtggatt tgcatcagca ttacatttga gattaacacc    2100
ttttcttcct acaaaccaat ttccatcata tcctgttacc gaaacttcag gagcatactg    2160
tatgtctaat atgaaagagt atcggatgtc cttttccaag gctggatgtt ttacaacaca    2220
agtaattcgc cttcctctag caaatctggt tggaaatagc ttgtactggc tgataatcgt    2280
tgccgtttca tttggaaaag aagttgtagt ggattccatt tcaccaagat caccttccca    2340
gtcaatatgt gcaacgggtt ttccagtggc tgcgatgcaa atggctgcta ctgtttcatt    2400
tcctccatca attaaagaat ctggcccttt tatcaggctc acagtgggtt caactaacac    2460
agttacagtt gtagaggact gggcatttcc aagcgggaat gtaacagctt tgcagatgta    2520
ttttccagaa tcagagaatc ctatgttatg cagagtaatt gttgcatcat taagtgagta    2580
atttttaaac aagactcttc cctgatattc tccttgaaca gagaatccat attggggatg    2640
gtgaactgca acagtctgtg aacttttgcc atgtatcttc tcccatgaaa tctgtgttat    2700
ggtttcattt acttcaatta aacacttta tgaaacattc tttccccata ctgctgtgac    2760
atgtggctcc acaataattg gtccagctaa ggcaccacag agcctggaga agagcagcag    2820
cgggaagagc agcagcagca gcggaggtgg cgtcgggggc tgcagcagga gcccggctcc    2880
gaggagagaa gcggaggaaa gttgtgcttt gccgcctcca ggacacagcg ggaattcctc    2940
cactctgata gtgntctcaa aannnnnnnn nnntnnnagg gtttcctaaa nnnngggggc    3000
tggcg                                                                3005
```

<210> 5731
<211> 5889
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

4267

<400> 5731
```
tttttttttt ttcggattag aaaacctgtt tattaagact gggtcacatc cagctagtac    60
atttcagtgc cctttctggt gctgcctccc aggagcagac actgcaaatt tcagaacccc   120
catctagaga aacccctaac ctgtgatcta gcttccgagg ctcagtgttg gttcttgtgg   180
tagtgctgat gtgtgggtac cactgaggcc aggccacagt cgcatgtacc ctcctctggg   240
ctgactcacg aggctacagg ggacagcaca cctaatgagc aggtctgtcc tccagacata   300
ctcattaaca agcacgttcc tggctaaaaa ataaccagat cttttttggcc gtgccctcag   360
gttggagaaa gaaaactttt aatttggaat cactacaaag acaaatggtt tctacaaatt   420
attttattag aatgtcagac tcaaaagaac taccaggaac atgcctgaaa atgctatata   480
tgatttatgc ttgacccatg acacctgctg tcactggatc cagagtgagc aagggaaagg   540
aagtggaggt aggcggggac agcaccagcc ctggctggcc agacctgagg cccacagacc   600
tggtccccac aaccaggatt cctacaatgt acacattcct aattcaggct caactctccc   660
tttacccaaa aagtaaaatg cctcagggac tcaatctgaa tcactgtctg tctcaggctt   720
ctttcacatc ccacgcttga atttgtactc ctgggtcaca tccccatgta aagcggtcac   780
ttcatggaag gtaccagagt gtaagtttgt gggcaaccca gtgggctggg ggccaaaaaa   840
gtccaaactt tcacctttgg gcccttctgg ctggcaaagg tcagcctctt gatgggagat   900
gaggcctatt ggacttggca tctccaatca ccacccacca gcccttcttc acgtttcctg   960
cggaagaaaa ggcgcattga gcagggggcct gtgacttccc tcctctcgct tcagctgcac  1020
cagcaccaca actgggccgg cacttgcgga tgcctgtcct tatctaccca cctcataaag  1080
atagtcgatt attaggggta ggggttacaa aagcgaggca ccatctgcaa ttctggctgt  1140
caagtcaact gaagccaacg cgttcccgtt cttcatcctt ccatctccca tgatgtcgaa  1200
aaacactctc cattcccctt gtctgtgcca acgttttgaa tatgctccag aaggtgaaag  1260
tgtggcagct gctttcaagg tatgaagtcc ttggaccaca tggcttgggt gaccatctgg  1320
gccagttccc atagcttgcc aggagcaggg ctgagccacc ccatttgctg gaaaggacat  1380
cccacgcagc cctggatgag ccggattgcc ttactaagga tttcctccgt atctgactgc  1440
aactcagcac ttcagctgca tgcgagacaa gtgaggcctg caggagcagg tttggtcttg  1500
acgtgcggat cattgaactt agggttaatt cagcttgtgg gggaccttct gagccaactg  1560
cctcaggaga ttgtcttcat ggtgccggat gggaatgttc tcatactctg ctgcattgga  1620
gatgatctcg ataagccctc gcaccttggt cttggcattg agggacatgc tgaagagctt  1680
caattggtgg tgtagttgat gtaatagtag gcggcgatca tgccttaggt tcagaggcgc  1740
cacgtccatc tcgtcctcga tgctgatgca cttggactgc tccaggtcac tcagggtctg  1800
ctccaccagc tctgacaagt ggtccgacaa gtgacgatgg gagatgccct gcaggttgta  1860
gtaattgggg ttctgtgtca tgcggcggta cagaaaggtc caggtgaggt agtccacagc  1920
atcctgcttg ttctcaatgg tcttggtgac gatctcagca ttgaagtggt catgcataca  1980
gtggtcccag gtgaagattc tactggcaaa tggctcaata ataagaactt cttgaaaaaa  2040
tccttcttgg agccctgaca catgatgaca cagcgcccct catcgtcctg caaaagggcg  2100
gttggcgtgg cccaccatct gaagcacgtc atagatgggg taatccacat aggcgtggat  2160
cttgccattg tagtactggg tatccatgat gattaccagg tgggcagcca cgttcatgcc  2220
ccagcagaga ctccgagaag ccaccaccac ctgggatagc ccctgaagct gaagagctgc  2280
tccaccaggg cgtcgctcca tggggctgag cccctcagtg caggtagccc accccatttt  2340
aggcagcttt tcctttgagt gtgctgttca tttagctttt tccaggtacg gattcagatc  2400
cttctcggtg caagtgcaaa gaacctctgc cgttggatgt ctgctgcaca ggtggtgagg  2460
atgtcaatgg cagtgaggcg ggtctgcttg cgagacggca caaagacaat gacaggcttc  2520
ttgggcgagt gcttggtgat agcatggtac acaggcttgg ctatggagag caggctggtt  2580
tgtgtatggc tgatgttgaa gccctggatg tgcagctcca aggggacggg acgcacattg  2640
```

```
ggatggaagt tgaaggtgga ggtggcactg cagcccagcc agtgggccac atccttggca    2700
ttggagagcg aagagctgag tgccacaatg cgaatgggcc gctcaatctg ggaggagatg    2760
tagcgcattc gggagcagat cacttctaag acaggcccat tctcgccccc gataaggtgg    2820
acctcatcca ccacgaagag gttgatgttc tgcacgttct tgcgctgctt ccatcgccgg    2880
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ggcactgttt ctcagagcag acacgggcaa gggctgcagg tccaaaagtt cggttggagg    3300
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gagccagcgg tcagacacca ctcggatgaa gtactgaggg ggcagcggtt caaagacagg    3420
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atggtgcaga atcacctcgc tgtccacatc ctccaccaga atccaaaaag cctcggatga    3540
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acatatttgt ggatggtctt ccccatcttt ggcatgcgga taagctcccc aatctcatta    3720
tgattcaggt cgtacagacg ctcaaagggg aaattcttct tctcaatctt cttcactact    3780
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atttcaaata tcgctcgcat caaccggcca gccgactgtg tgacatacac catgtcagcc    3960
atcagtgcaa agccctccaa tttcagctgt gagatgaagg cttgcagaag aacgttgatc    4020
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tgcagctcca gcttctcctc ctctctcact gtgatgttct tgaactcaga ggacaatgag    4140
aagaccctga aaagctcaat ctcactcagg gtgggcttca gcagctggtt gtaagtctgc    4200
actgtatcat tggtgatgta gtagtggctg gctatacggc ccagttctgt cacctggaag    4260
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tgaaccagat ctagtcggcg ctggtccagc aggggatctc ccttgaggtc atcatgagag    4380
atgccataga gggttgggga tcgcagcatt cggatataga ggtaggcata gcccagccag    4440
ttcaccgcat ccttggcatt ctggacattt cctagcacga tttctgcatt gagcatgtca    4500
ggaagctttg aaaccatctg gctttcaata ggaagttgtt gattgaggag ggacaggtag    4560
tactgtagct ccccatgaga tgtgatgagt atgccttcac ccttggtgtc atactggggt    4620
cttccggcac gtcccagcat ctgcagaatg tccagtgctc ccagttctgt ccaacgcccc    4680
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ctccacgagt gttcggtcaa ccctggtcat gcctgcatga tgaatagcaa agccataggg    4860
caaaagatcc ttcagctcca agttcttgca ctgctctgct tctgtacgaa ggacttcagt    4920
ggaggcagaa ccctcgcgaa gaaacagacc caaagtgtcc ttctccagac acatgtcacg    4980
gattgccctt gctgtcttcc cagtttcttt gcgagaatgg acaaacacga gcacctgatt    5040
ttttccagca tgttccatga ttttctcata gactatttca ttcatgatct ggaaacgttt    5100
gatagctttt ttctctgtga tgcccacata tgtttgttcc agaggcacgg ggcggaagct    5160
gttatcaaag tagaagaggc ccttagcagg gtcgactcgc agaaaggtgg ccacatcttc    5220
atagttgggg agggtagcac tgagaccaat gagtcggaca tcttcttggg tcatctcaat    5280
gtttcggatg gccctggcca ccaaagcttc taagacagga cctctgtcat catgtagaag    5340
atggatctca tccaagacaa tgagtcgcac cagctgggtg taggtgcgct ccccgccctt    5400
gcgtgtgatg atgtcccact tctcagagggt gcagacgata atctgtgtgg cactgatttc    5460
ctccttgcat agctggtgat ccccagtcag ctcagcaaca gtgatgccat atgtggccag    5520
gcgctttcca aaactgccca ccatctcctg gaccagggac cgcatgggag ctatgtagat    5580
gatcttgaag tcatccacat tgattgtgcc gtccatgttg atgtgtttcc ctatctctcg    5640
gagcatacac atcagggcca cgttggtctt gcccgcacca gtgggagcac acagcagcag    5700
gttctcatca gtctccaggg cagcacggta gagcttactc tggatccggt tcagcgtttt    5760
gaagccctca aatcctgcct gggcatactt tggcagcttc tccaccggga gcaattgttc    5820
ttctgagcca aagggcttgg gcttcaaagc aggcacatgc acctcttcat agcccttacg    5880
ctggcgacg                                                            5889
```

```
        <210> 5732
        <211> 2716
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (593)...(32)
        <223> similar to gi2388904 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters



        <400> 5732
        gcctttctct tctagctttg ggatctcagg aggaggagaa cccaagaaac tgtggaatga     60
        tgtgaggcac taagtgaccg cttcagcgca cgatccccga tgaccagatg gcgcacactc    120
        cttttttcca gatgagtatt tcacctgctc ctccttgtgc ctcagctgtg gggttggatg    180
        taagaaaagc atgaatcatg ggaaggaagg agtgcctcat gaagccaaga gccgctgcag    240
        atactcccac cagtatgaca accgagtgta tacctgcaag gcctgctatg agagaggcga    300
        ggaagtcagt gtagtgccca aaacatctgc ttccactgac tccccctgga tgggtctcgc    360
        aaaatatgcc tggtctgggt atgtgatcga atgtcctaac tgtggcgtgg tctatcgtag    420
        tcggcagtac tggtttggaa accaagatcc tgtggatacg gtggtgcgga cagagattgt    480
        gcatgtgtgg cctggaactg atgggtttct gaaggacaac aacaatgctg cccagcgcct    540
        gttggacggg atgaacttca tggctcagtc ggtgtccgag cttagccttg acccaccaa    600
        ggctgtgact tcctggctga cagaccagat cgcccctgcc tactggaggc ccaactccca    660
        gattctgagc tgcaacaagt gtgcgacgtc ctttaaagat aacgacacta agcatcactg    720
        ccgagcctgt ggggagggct tctgtgacag ctgttcatca aagactcggc cagtgcctga    780
        gcggggctgg ggccctgcgc cagtgcgggt ctgtgacaac tgctacgaag ccaggaacgt    840
        ccagttagct gttaccgagg cacaagtgga cgatgaaggt ggaacgctca ttgctcggaa    900
        ggtgggcgag gccgtgcaga acactctggg agccgtggtg acagccattg acataccact    960
        aggtctggta aaggacgcgg ccaggcctgc gtactgggtg cctgaccacg aaatcctcca   1020
        ctgccacaac tgccggaagg agttcagcat caagctctcc aagcaccact gccgggcctg   1080
        cggacagggc ttctgtgatg agtgctccca tgaccgccgg gctgttcctt ctcgtggctg   1140
        ggaccatccc gtccgagtct gcttcaactg caataaaaag cccggtgacc tttaacccca   1200
        gccccctctc cgagtccttc acaattcctt aggttctcag ggttagaaac agtcttgcga   1260
        ggtaggccct cctcccagtc acctgctgtg gtgtgtgtcc tctcctctcc gcatccaggg   1320
        ccactttccc tcagtggggg tgagcctggc ggcaggcccg aaggtgtgga cccctcaggg   1380
        caggggacct tgcaacttat cgcaaagggg aatgaacctg aatccgttgc atttatttca   1440
        gttaaaaata atgaatatat atgtgtatat ctctctctca tatatacata tgaaaggcac   1500
        tcggggcgta tcgaggctgc tgctggctgt gaagacttcg cacagtctcc tccgcacagg   1560
        gtgaggtggc agtggcagca cgtcttcctc atgagccgag ccaggtccat ggccaccacg   1620
        tggctggccc cttcctctgc tgctcttgga gccttggaag cctctcctgt ccttggctct   1680
        tccctccatg cctgtcagct gcctggggag tgagcctccc tggtccttcc tgcctgaaac   1740
        agcctgaagg gaattctccc taggtctcct gggagtcgag tcccaattct tggcttaagc   1800
        ctgtttagt cagagaccac ccaacttatc gtgcaggtca ccggagtggg tggagggtca   1860
        gaggtcgggt cttcggccct gagaagcaga aatgcagggg ccgtgctgtc cctggtcccc   1920
        cagggaacag caaggaagga actgagcctt ctccagcagg gcttcctgtc ccgatgcttc   1980
        tgtctccact cggctttccc aaaaggcggc acccagctcc tcaatcgaag catctgcctc   2040
        ccacccctcg gccccctcaa gcccaccatc tgcttctgag tgtcgcacta ggattttcat   2100
        tgcttatttt aaagtgtctt aatcctttgt tcccagacac acaacccctc tagctctcgg   2160
        aggggcgatc atgagaaacc ttccagggaa actgagcaca ggatgaactg ttagttgttt   2220
        ttaaaagtct atataaatat ttcaacagat cgtaaagaaa aaatttatct ctttggtcct   2280
        tgcaagagaa gtcaaaggaa cttttgtttc tcctcaagag cctggacatc tctgtctgtc   2340
```

4270

```
atgactggaa agggcccgtt gtgctgaaat cctatcatca tggtggattt gatcttcagt    2400
ggccaaacac gaattaaagt ataattctta actgaactgg tgggtgggtt gagctttagg    2460
gaagtatatg gcggtcattc ctggtgcgcc tatcggtgtg acatgagccc tggagtgtgt    2520
cgtccctctc agccctgctc ctcctgcctc ctggggtcca gtgactggga ccctactcta    2580
gaactgtgta ccatccaatt cgccatcata aaggaatctt cctgctgatt ttaaatgctt    2640
tcttgattga ggaaggtatg ttaaataaag agtagatttt cccagtagcc taatactcaa    2700
cacatgggat tttacc                                                    2716
```

<210> 5733
<211> 2022
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1293)...(722)
<223> similar to gi1276645 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5733
```
tttttttttt ttggagagag gttgtgttta ttcaccatgt cataccagca tatagggaac      60
ctctatttag gagctggtgg cctgcactca gcaccgcaca gataaaaata tacgaacttt     120
caacacagat ccaaataccc tcacatttta aaagtcagga ttccctacac aagtttttaag   180
ctgacgggga ttcaagttct gaagttttca tacatagctt taacttgtat taaacacatt     240
gtttatttac aacggtggag agagaataag gggcagttaa ggccactttt ctcctgtgaa     300
aacgctgcca aaatatgtga catagagtac aacctaatat agccaaaggt tctcaaaaat     360
catcttttct tggcttcaac gtaaattgaa taatcaatcg gggagtggga gagcggctgc     420
cgaatagcac cagggccatg ccagggccac gcccaacaat gggcgtgtcg cattcacctt     480
tttcattgag ctgcccctca gagctgctgg ccgaactgac gcccctgcac tgggccgcag    540
ggtgtgcgcc gcaccccaga ccgggtctga aagcacgtgt caaccgggtc ccttcagttc    600
ccatttccca aatccaccca aggtccagtc cgacagacat ttccaaaaag aattcctgtt    660
ctaggaccca cttgcgcttg aggagcacac ccgggggttc aaaggggcag ccaccggggg    720
gtcaaagggc agccatcagg tactccccag ggaagggctt gcggccacca gtcacttgca    780
accccgcctc acctccgatg cctgctgtgc ccagggtggt cccgctcata gcgacggccc    840
tgtgcgttca tacgacctcg agcgcttctc gtcgctgatc tctgtagtaa atgacttttc    900
ttcttgtatt ttcccggatt atccgcccgc tcccgtgacc tgcttcgaga acggggaaga    960
actccggctc ccgaaaactt gtgtggctta ctgggggtac ttgcagtcct tggacttccc   1020
gggagccccg aatctcaaga gcctttgtaa gggagcgctg cgggggggcc tgtctcggtg   1080
gggagtcact cctgctccgg gagcggctct gcgacttgga cccaccagat gtggagccgc   1140
tgtcactttt cctcctctta ggagacgctg atcgggatgg ggacctcgag tagctctgct   1200
cacggctccg gctccgactc cgactctctc gccccttttgg caagccgttc acggggctgt   1260
ccgccttggc tttcttggcg ccctccagcc tcctcttggt gttcttcaca gacagtgggg   1320
aaggcttgct cccttttacct tctttggggg attccactag aatcagaaca agaggttaaa   1380
agccaaccac aaaacactct cccaataaga aacaagttcg tagagcgaga taaggcccct   1440
ctacaggtca tacagcgacg caagcagact gtaacttccg gctcccagct gggacccaga   1500
acttacacag acatcacaga aatgcagatg gggctggacg cggggggctca cgcctgtgag   1560
cccagcactt cgggaggccg aggagggcgg atcacaaagt caatacattg agaccatcct   1620
gcccaacatg gtgaaacccc atctctacta aaactacaaa aattagctgg gcttggtggc   1680
acgcgcctgt agtcccagct actccagagg ctgaagccag aagaatcgct tggacccagg   1740
aggcggaggt tacagtgagc cgagatcacg ccacagtact cacctggcaa cacagcgaga   1800
```
```
                        4271
```

```
ctctgtctca agaaaaacaa aacaaaacaa aaaaacccca aaacatgtga gtgtgtgtct       1860
ctctctctct ctctatatat atatatacat agacacacac tcacacacaa attacctgag       1920
cgtggtggtg ggcgcctgca atcccagcta cttgggaggc tgaggcacaa gaatcaccag       1980
aatctggtag gcggagcgtg cagcctcgtg ccaagcttgg cg                          2022
```

<210> 5734
<211> 2296
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1947)...(1305)
<223> similar to gi5921473 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5734
```
cgcaggcacg tgctaccacc acgcctggct aattttttagt tttttttacag aagcgggctt      60
ttgccatgtt gtccaggctg gtctctactc ctgggctcaa gcagtcctcc tgcctcagtc       120
tcccaaagtg ctggaattac aggggtgagt tgctgcgtct ggtgttggtg actttctaga       180
gattactttt tggtttacat cattttcctt gtgactattt ttactttttt ggggggcggg       240
gggacagtct tactcttttt agtttacatc attttccttg tgactattct attttttactt      300
ttttagggggg cgggggggaca tgagtctcac tcatgttggt caggctggtc tcaaactcct     360
gacctcagtt gatccacgcc cttcggcctc ccaaagtgcc gggattacag gcgtgagcca       420
ctttgcccgg cctgtatttt tacgttttaa taaatccccg tattttttgtt aaaggctggg      480
taacctgact cctcccctca tttctactgc aaaataggag tacactgggg cctcccagtg       540
gagctgttct ctgctgtttt aaattacttt ctactcctcc ctttctaacg tccactcctg       600
gactcatttg ttagatcaat atatactggg actgttgtgt tttctttgag tgtactagat       660
ctctttccag aagagcttcc cttgatccag atctccctaa ttgggaatga tgatttcaca       720
gactagagtc tccgatgctg gtcatgatgt caaaactaag ttctgactca tttagggaac       780
tggatacttg ggtctccaga agggccaatg ggagggccat aattctgttt attttcaaat       840
tgtcttgttt tcaccttgtt agaatgaact ctggaagccc agccagggac aatgcacctt       900
cacagagatt ctgcactaat ctgagtgaag gtctaaggtt tggaatctcc ccctcatgga       960
gagaagcttt gtatggctgt catgcttaga cagtgattcc tgcaacttga ccttcaggct      1020
gggagaggtg gagagccatg cctgttctcc ttccttgcta tggaatttgc tgacacaata     1080
tcttccgcct ggtgctgggc atatcctaag aacttacaac tttcctgtat tatcctgtgt      1140
gagcagctgt caccttattg ggggaaaaat gcctgaaaat taggggcac ttcaagtaga       1200
tagcttctat ttcctatatt tgtcttatat acaagtattt gctttttatca aaataattcc     1260
aataaagcat tttaaagtaa agaataatat aggaaataga agctatcata cttgaagtgc      1320
cccctaattt tcavtgavat tttcccccaa taaaggtgac agctgctcca cacaaggata      1380
atacaggaaa gtttgtaagt tcttaggata tgcccagcac cagggcggaa gatattgtgt      1440
cagcaaattc catagcaagg aaggagaaca ggcatggctc tccacctctc ccagcctgaa     1500
ggtcaagttg caggaatcac tgtctaagca tgacagccat acaaagcttc tctccatgag     1560
ggggagattc caaaccttag accttcactc agattagtgc agaatctctg tgaaggtgca     1620
ttgtccctgg ctgggcttcc agagttcatt ctttactcaa ggataacacg gcgatgaacg     1680
tcttacaact cagttgtttt gagtcagcag gggctgtggg gccgctagcc gagttccccc     1740
tgccacgagc taggtcagtt ccaagcaaag acaccagaaa ctccagtgtg caacggtagt     1800
tcacccaact gcactgggga ccgccctctc ctaccccagc caggccgcga cgtggccgcc     1860
cgccggctgc tgcgcaaagg cagcgcaagc cgttgggatc ccctgctccc cctcactcaa     1920
cagtcgggcc attacaactc tcatactgcc aacccacgag cccacttcgc aaccacactt     1980
```
```

                                        4272
```

```
atccccacct tggctatcat cacccgatga ggcaaccagc cagaacgcct gaacgcaggc  2040
acatacttcc tattctacac cctagtaggc tcccttcccc tactcatcgc actaatttac  2100
actcacaaca ccctaggctc actaaacatt ctactactca ctctcactgc ccaagaacta  2160
tcaaactcct cagcctccca agtagctggg actacaggca tgcaccacca cacctggcta  2220
tttttgtatt tttactagat tttcaccatg tttactaggt ttcaccatgt tagccaggtt  2280
ggtctcaaac tcctgg                                                  2296
```

<210> 5735
<211> 1671
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1179)...(1490)
<223> similar to gi3002527 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5735
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caaggattaa aagaatatga tcaagcattg gtaaattttg ttccaaatgt ttaatttttt    60
aaaatagaca actacctttta taaatcatac acctaactta aatgtttttt tccaattaaa   120
ggctgatctt aagaaagctc aggggatagc accagaagat aaaggtaagt tggcagcttt   180
tgtagtgaaa gttaattttg ttatttaaat acttatcctc aggaaccatt gttcactttg   240
ccagatttta gatgtttgtt caacagacac tacagaatgc ctgctgttgg gccaggcatt   300
atcatatagc aatgaacaag acagtcaaag tccctgccct caaagagctt acattctact   360
cccattcaag aatatagtag tttttcacgt tatttattct tcaagttatc atctctgtag   420
ttttttatat gtctaaatac tgtttgtctt atggtatcct ttgagactgt gttcctattc   480
tggttagtct aggtcgagag gctcagcatt gtaagacaca gtattccatg gtaaatttaa   540
ccatttggga cccattcaag ttgaatgtgg ctataacctt agtattgatg tactggttat   600
atgttttagg aaactatgac aaaaataagc ttgttttcca aataaaccaa ctatgaatag   660
tgacactaga tctgggtatt acaaaatgtc tttggtctct tattactaaa atgaaacaag   720
ggaagcaatt actgttctct aatgtagagg cagaaggcaa atcttgatgt acttgagttc   780
tctcagttga catcctctaa aattacgttt catttctgtg tttgtgtgat tgctcagatt   840
ttctgttact agggcttagt tactttgtag agaagttttt tcaaggggta gttaacatta   900
aaatagtttg ttagtcacca taatttttttg gatattttga gaaataactc acattgcata   960
tttattttac agctatccag gcagaattgc tgaaagtcaa acaaaagata aaggcacaga  1020
aagataaaga gaaggcagta tatgcaaaaa tgtttgctta gaaaggattc agttttgctt  1080
attgtgtgtt gattgtataa atgcaataag aaaatgtaaa ggttttttgtc tatgaatatg  1140
atccctaatg tgtttctttt gacaccttag ttccttactg tttacagttt aggagtactg  1200
atagggttc atgcttaata aacatgtcac aatacagtaa gtaaagtggt tttgtttgtt  1260
tctttgagat ggagtcttgc tctgtcaccc aggctggagt gcggtggcgc aatctcggct  1320
cactgcatcc tctgcctccc gggttcaagc aattctcctg cctcagcttc ccaagtagct  1380
gggattacag gcacgtgcca ccacgcccag ctaattttttg tatttttagt agagatgggg  1440
tttcaccata ttggtcacgt cacgttggtc ttgaactcct gaccttgtga tccaccccgc  1500
cttggcctcc caaagtgctg ggattacagg tgtgagccac cgtgcccggc caagtaaaat  1560
gttttttaaa atggttatgt gcattattca taaaaaataa tggtgtccag tcttttttaaa  1620
cttgtaaaga cacatcttat tgaataaaga gatgagagct taaaaaaaaa a           1671
```

```
<210> 5736
<211> 3035
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2946)...(223)
<223> similar to gi29731 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 5736
caccttcaaa tgcactcaag acccataaaa taataaaaca tactagctgc tccattttca      60
tttcaccact ttgaaatctt ggaaccactg atgtgatatc ccacagagag ggcaagactt     120
cactgtgaag tcaccaaagg aactcctgcc cttctaggtg ccacttgagt aataactccc     180
aactcactgg tcctctaaac ctgcagcagg gagatggtgt gctaggtagc tacatgggca     240
ggagaagaaa tggaaacaaa ttcccggagg atgtttttgg ccatctcgat gttgttctgg     300
gcaatgacca aagctttctg gatgtcctgg taggagtacc cctgactcat gaggttctcg     360
atctcactgg agagctgagg tgagggcggt ggcagcagag gcggcaggac cactaccttg     420
ctgacagctg ccagctttcc gttcagagtt gattctccgc gggaatggtt ttggaggcct     480
ctcgggaact tgggaacctt cagtgacatt ttgtggttag ggatcccttt ccaggacaaa     540
cagaccaagg aagagctcgc atttgagata tctgagagag ttcggcgggc catcccggcc     600
ggcacaggtg gctttgggac atcataccca tcatcctcat tttctgactc ctcgggacca     660
gtgttggctt gggctgcggc caaattccct tcaccaaagg tgctgctctc ggtgatagat     720
ggcgcctggg actgaatatt atacattgct tcatacgtac agctatcaat ctgctggtcg     780
caatacatg ctcgtgaact ctgggatgta tccaaaggcc gtagaggcct ggaagaggga     840
gtcatgtact ctgtgtcctc ttcaccctca cattgctccc caggtggcag ttttggcaca     900
ggaagaggtc tggcagccag agaataaatg gcattggcag atgaggaagg tttgattttg     960
gggtggtcac actctggacc tactaatggg ctgctattca tactcatgga ggtatccaga    1020
ctgaacgtgc ttccgagcct aggcacatct ggtctgggct ccatttgtga gggcaatgaa    1080
aatggaagtg agtgccggtt ggttaattct cttcctgtcc agggatcact ggaacttggg    1140
gcagatactg gtactttggg gattggccgg ggcagccatg agtctccaag gcggctagag    1200
gggacagggg gcagtttgtc tctggaggga cagtcgcctg gtgtacaagg caaggggcgt    1260
ctttgaggtc gggattctgc tccaacagaa tatggccggt ctggaggcgg tggtggtgga    1320
agatctcgaa gtgtgggagg tactggcaat ggtttgtctt tatgaaggga gccagaagca    1380
gccttagaag cagttccaag agcagaagca cttgagggaa cacatactcg ctgcggcaga    1440
aggtcaagtc gtggtggcac cgggggaagg gaagcttgtg gggccatgga gaatggagaa    1500
ggcggccgtt ccaccttggc accagccaat tccttcatca tgaagagagt atcatcagct    1560
cgttcatcat catcatcatc ataatttggg gagggagctc cctctgctcc ttgcctcaac    1620
aggctgccac tccctctagg atcaaacgga tctaccacga tgggttcagt acctttaatt    1680
tcacatcggc agaaaggaca gccctgacct tctgattcct gccaggatgt aagacaggat    1740
gtgcacatga ggtgtccaca gggctcaatc tttacatcct tatcattttc agcacatatt    1800
ttacatagtt ggaatgtgga gcccatctca cagtataatt catattgttc ctgggtcact    1860
ttgatatggt cttgggggagt tggttcacat aagccagtca gatcaggatt ctgatttcgt    1920
ccatcaggaa acaaatagaa gccttccctg aagccatcaa tcagtgcttg gaagagaggt    1980
ttattgtgag ggattgtctg gagaatgttc ccatcagcag taacataccc aatagcccac    2040
tgacccagac gagtacagct cagccggaag atataactgc caggtttgtg aatgaatttc    2100
tggagccgag ctttcacttc gtcatacgtc aaaaaagcca tgtagccagg atgagttaca    2160
gcaaggctgt tccaattcct gagcaaagag gaccagggct gaaagagtcg ggtaaagatg    2220
tcaaattcaa aaaccgaaat ataatcattg caggtcagat caatagtgga tttcagagcc    2280
atggcctcca gcccagaact gatgggatgc acttcatgta gagcctgtcg aaagctcttc    2340
caagggacta ttgtcttttc cccaaaagct tttctccaaa attccgcagc atctgcttta    2400
```

```
gtaatccgaa atgtgtctcc ctgaaagagt ccacttggaa agattccttt tagttctgcc   2460
agcatgtggc tgaagatgag ggacagtttg gttaggtttc gcctaggctg agaattctcc   2520
tcatacattc tttcttttcc ctccttgaag aggcttatgg tttgcttagt tttcttcatc   2580
aaattctcca taaacaccct aaaatactca ttttctccaa gtgtctccat cttcccctca   2640
tatcttgaca agatagtacg gagatgctgg taggtatctg gtagcaggtc taagatataa   2700
ggtgggctat tctttagcgc cagctttggg ttctgacaca accgcaccac cttgtccatg   2760
agcttccagc acttctccac catcttcttg tccaccgtcc ccggcgggtg ggggctgagg   2820
tggtggtggt ggtggtggtg cggctggaag gcgtccttca tgagcccaat caggccaccc   2880
gaacccgagc ccccggagcc gctgccgccc ccggccccag agctcttctt cacgttgccg   2940
gccatggcct gggcagggtc ggagcccagg cgggtccgcc ggctcggctc gactgcgagc   3000
gagggagaga agcagggcgt gaaggaggga cgaaa                               3035
```

<210> 5737
<211> 1832
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1782)...(0)
<223> similar to gi1006659 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5737
```
tttttttttt ttgaaggaaa ggaactttca atgagaaatc aaaacacagg ggaaccaaag     60
tgcaaatcat ccaccccca tggggggggcc aatcctgaac cccacatcat ccccctcagcc    120
cccttcaggc ccccagcgca ggcccagggc tcggatgctt ctgcctcagg tagctcttga    180
gctggggca ggcctctctg ggactccagt tcctcgaagg gtagacggca gggagcttga     240
agcccattca ggcctagggt gccgttccct caggggccct tcgagcccag tcaggcaccc    300
gggccgtccc ggcagtaaat gcccagccgt tcccgcaaca ccagcaccac cctctgggca    360
agggtctcga gtagtggcgc tagaggcagc ctgggccctg tgggcaggac ccttggtggg    420
tatggcagga aggggtcctg ggtcctcacg ggaagcacag caccagagct gctggcgcac    480
agcaggaagt ctgtgcagta gcctggaggc acagtcaggt cctggcggta tttctcctcc    540
cccagcagct ggcgcaaccc ctcagctact atgtccttgt gactgtactt gcagcgggca    600
cggtcggtga tgagaggctg gggaaagatg ggcacttgct gccttcgggg aaggcgggga    660
ccccggtatc ctgggagctc cagctccacg gccgtgtcca gcagggagag gtagcgacgc    720
acaatcagag catgagggt gccactgatg tagttgatga agccagggga aaaacaaag     780
tgcagggctc tgaagggcag gcaccgcagt tggcacagtg acatcaagat gttgactgta    840
gccagggggtg ccacccctgc ttcccgagcc aggatcctct caaggcaggg cataaactgc    900
tgttccaggg gcaggtagtt cagtcgccca aagggcagga ccaacttctg taccaccttg    960
ctgctgagtt gcgtttcctg aaccaccagg aagtgggcaa tggcttccag aagctggggc   1020
tcccgcaacc ggtgccgggc caggtgctgg gccaggagca ccatcacgtg gggagtcagt   1080
tcctctggcc ttgcctctgc caggctgctg atcagatgct gccgtggata ccgcagaaaa   1140
cgggggcagc ttagagcagc ttccaaccct tgcccacctc ggagaaggg ctgcaaaggg    1200
ggaggtggct tcggagggag gcggagcctt cgctcctgtt ccagggcaca caccagggga   1260
ccatcagatg gaaagccaag taagactgca aggtgcagac acacgtggat ggtgtgaatg   1320
tcaaaggagg ggcagtttcg gatgatgagc tgactcaagt cctgcagtgt gacctgctcc   1380
acaggagggg gccgtggccg agaccccaag agctggccca gacgacgaag cgccaccgag   1440
tagtggtggg cgcgcacctt gctggggttc tggcccagcc agcgcagcag ctccccaggg   1500
ctcttcgcct gttccagaag ccgctgcagt ccttgcacag gacctgcact ggggcctcct   1560
```

4275

```
ccaacaggcc ggtccccca tttgctgggc cccaaacagc agggctgtac tggagggatc   1620
agcagcaggc cagacagccg agcaggggag gtctgagcag agagcaggac tcgaagcatg   1680
gagttgggtg atggagacca tgactccccg ggccctgcgc aggtcgctcc ctcagtcggt   1740
ctcggggccc gggggccggg ttcccccgc ggcctcctca tcggctagcc accgagtccg   1800
ccatcttccc cctcgtgccg aattcgaatc ga                                1832
```

```
        <210> 5738
        <211> 1651
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1539)...(498)
        <223> similar to gi5281034 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 5738
tttttttttt ttcagtgaaa ttgaatttt attccaaatg actaatatct agaaaggcag     60
tagctaacac tcaaaacaat ttgtttaagt gtaaattaaa agcagttgat ttgcaggaga    120
gcaaacagtg gggtagtggc catggcactc tgatcatggt tatatccaag aaagcataaa    180
ataaccaatg tcctgatatg caatctggat gtgcagcatt tacagcaaac aacataaaaa    240
gaaagaaaga agaatggaaa agaaaagaag aaaaaaacca ccacaaagtc ccaaacctca    300
gaaattaaca ttcacttaag aacacagtgg tgaagacttt tggtagcaaa atctgcacgg    360
ttcttaaaat gggagtcttc aaaagtactt cttcaaattc aaaagctaag aaaaccaaag    420
agggaacagt tacacaggct tagtggagat gccgcctgtc atgaagatga ccatcagtcc    480
tacttcccag acacagtgag aaccggtgag cctgacgaac ctgaaggaaa aggccggctg    540
acgggtgctg atgccactga ctatacaaga acacaccggg tcaactcatc attgacagcg    600
agagacacac tactgctcct cctggctgat gccaaggctg cctttctgca cctcaagctc    660
ctcggcactg accattgatg ggtcaatggc cgcgtatttg gttccatgga attgcagcaa    720
atgtatctgt acataaagat tgacctctgc acttctgcac aggtatggga aattgcctcc    780
tgttttcaga tgagctcttc gggcattagg atacagcttg tacatttctt ctttagcttc    840
agttgaaagc gcactctgat caaacacatc cataatagtt acaggtatgt cccgaatttt    900
atgaggttcc acataagaat tttgacaatt caaggtaagt cttgaagcca gttcactctg    960
acccaaactt tctagcctgt ctaccatgaa atcaatggca tcagccatca tagggtccac   1020
cgggccagat gaaaaatttc caagaactat tttttgagc ataaatgcag gcatcagcca   1080
aaagctgttt gcagtccaag tttggttgaa gatagaggtg tcactgaagg aattgcagag   1140
gattagggaa tggactctag gagatttgtg agtgtattca gcaaatttct gggccaaaaa   1200
gcctcccaaa gaagcgccaa aaagatgaac tttatccaat tgtaaatggt ctaaaagttt   1260
tctgaatcca tcacagaact cgagatggtc ccaataaact ggatactgca aagcgataac   1320
ccggtaaccc catccagtca gagccaaaat ctgccggaaa aagacatctg cagttccact   1380
gacaggggc aggaatatga gaggacacct gatacttcgg gggcccgcgt catagagcga   1440
ccatatctta ctgtcatcat catccacaat aatctttta aggggaactg tacctctaaa   1500
ccagttataa tcaggagaga ctttaatctc tcccatgatt agctgaaatg gaggttaatc   1560
ctgccgtggc cgcccccacg tcccttcccc tccttcagga ggccgctctt cgctccagta   1620
cgagcgcggg ccgtggaggc ggctgggccc g                                  1651
```

<210> 5739
<211> 3019
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3020)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2664)...(345)
<223> similar to gi2347131 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5739
ttttttttt ttgtggaaac cattgatttt tattaatttc ataactgcgg aaattccatg   60
tgaaagtgaa acaagcgatg agtcaagtca accagggaag gaatctgggg acaggccaaa   120
ggagcgggag gtggggcagc gaggcagtcc tgctggtagg agccctgaac atttcccaga   180
cttgtgtgcc gctcgctctg gcatcctaga gacccggatt tactcagcta ggagagagga   240
ttggatcaca aggttctaag ggtggcccat tcagaaggta gaaaatggag gggccggcag   300
attctggcag ggcaagcaaa agggctcaag tggccattgg ctaggagggg taaaaaaatt   360
caggacatcc ccccagggtg ctgcctcagc caagggcttc attgcgggaa gatgattgat   420
gtgaaagttc tcgtgggcgg cgggaccttt gctacgagg ggccctttt tggggagttt   480
ttgtccagca gagccaaggc agggggttgt aaaagacccc agctgcacca gaccccacct   540
gcagataacc tgaatctccg ctcaaggaaa acctgctccc ccagaattct cacttgcagg   600
ggactctcat cctcctgggg tcacactgca taaggaactg ggtctgtcac caccttccct   660
gacatcctgt caagttgggg aaccatggtt tttttcttgg gagacaaccc tcggcaacag   720
cttgtccact ccactcccat tcttaaggtt aaatgttcca gtttgctccc attccaaggc   780
gaccaaaatg tgcagagaac actctgtttg ttccagccag ttcattctca tggtccccta   840
caggtgctgc ctttgaaggt ctcccgcaag aagccaagat tggcctccca tcgtgcaagg   900
gaaggcaaga tgggccctgg caatgggtgg aacatcttta ctttctgggc cagcttcaag   960
cagagctatg tcaatcacca tagaactccc aggattccct ggttcttttt ggcaaagaca   1020
tcaaaccctg gggagatcac cgccttctca ataaggaatt ctttgcccca ctgggatttg   1080
gggtctccca cattgaccct ccacagggag tggtcgttgc catcgcggaa gcaatgagct   1140
gctgtcagga cccattggtc ggagatgagg gccccccggg caggtctct tggctcttgg   1200
gcttaatagt gacatgccag ggtgtcctct cctggtcaga ggcgtttgct gacatgttcc   1260
ccaccccgca gatggtgtct gtgagcttgg agacatccag catatgttca aagacctggt   1320
gcagagcctt tgtgtcctgc agaatgaagg catgcctctc accatccttc ttggaccctta   1380
gctcattcag ttctctccag tccacatcca gcttgcccac cccgatggca tagatgtcca   1440
gatagtcatt cctcttctgg ttgatgttca ggatctctct gatatggtca acagctgtct   1500
tgggagagcc acccatatgg gactttccca tctgtcaaga aggatgatgg catgtcggat   1560
ttcctgccca gnccatcgtt tccatgccga ggagtcgcat ttggttgttc atcatgagat   1620
agacactgtt taaggccgca taggtgttag tcccagttcc attttcatga tctttatagt   1680
tggcattttc caggctgctg atcacctcag tcatatcccg ggagttgtcg ttcaggacag   1740
acatgaggac tttgggctct gaggcaaagg tgataatggc aacgctcaca ttgatctcaa   1800
agctgaagat cctgtccacc atgagggagg cgctctcctt gaagatgaga aagtcatttt   1860
ccgacacact ctgcgaacag tccaggagca ggtagaggtt cagatgacca gagcgctgga   1920
tttggatttt acggcccagg ctttcctttg tcttctgggt gggattggtg gccccaagca   1980
tgtgggagaa ggaagtgccc agggcagggg ccacgtcctc agggaagtca taagagtagg   2040
gttggcggca gatgggctcc gttccactcc agaccccgtt gccctggcac tcccgctccg   2100
aagaccccgt gagcacaaga ttcgaggagc agcgatagcg gaccttgtcc ccatgaccaa   2160

```
agcggaagcc tgtccgcact tggcccaagt gaaatgcctg ggttggggca gtggccagcc    2220
ccattatcac acacagctgt ttctccatcc cacatgccgt tggggcgaca ctgacgcaca    2280
ggcgagcccc gcaattatga agccatcctc acactcgaag ctcacattgc cacccacggg    2340
ataggacccc agccgtgggg tataaatgcc attctcaaag gagacagggg ctggacagcg    2400
cacaggtttg cagaccgcct tagacagaga ccgggtggct cctggggtct gccactgtcc    2460
gctgctcttg cacagccgtg atgctgggga tgggtacagg ccctgggggc aggagtaggt    2520
gagaaggctc ccaggagccc agccatggct gagggtgaag gtgccacccg agatattcac    2580
gttctgaggg caggaggggag ccgagtctgc cagacctggg tacaggaaca gcaggcaaaa    2640
aagaaccatc agtgggccca tggtgtcctc cctaggggcg gcgagaggta gagagccgcg    2700
ggagggaaaa ggtcatctga cttcccgaaa actagagctg ggtcagcagc tgcttcattg    2760
ctgccagaga agaaaaacca gggagtggca aggggggatgg tcttctgtta gggaaataat    2820
aagcagggat tggggactga actgaagggt gaaacctttg ccctgtctcc ctgatgctaa    2880
tatatctata gggtcaatag atctcccca caggctttgt gtactgcctc cacgctccac    2940
ccacccatgc gtgcacatgt gcaccataca cgcatgctct caaacacgca ggcaagcaca    3000
tattgggggag ttccccagc                                                   3019
```

```
<400> 5740
ttagcagcaa gtgctgtttc ctggggcagg ggcaagtacc cctcaacccc ttctccttca      60
cccttagcgg caagtcccgc tttcctaggg ggcaagaacc ccccaatcgc ttatttccgc     120
cgcaccccaa cctcttatct ctgtgcccca atcacttatt tctgcaccct gacctcttat     180
ctctgtgccc caatccctta tttccctgcc ccaacccctt ctctgctttc ctggagggca     240
agaaccctcc gccccttctc cctgtctcta ctcttttctc tgggcttgct ccttcactat     300
gggtaagctt ccaccctcca ttcctccttc ttctccctta gcctgtgttc tcaaaaactt     360
aaaacctctt caactcacac ctgacctaaa acctaagtgt cttattttct tctgcaacac     420
cgcttggccc caatacaaac tcgacaatga ttccaaatag ccagaaaacg gcactttcga     480
gttctccatc ctacaagttc tagataattc ttgtcataaa atgggcaaat ggtctgaggt     540
gcctgacgtc caggcattct tttacacatt ggtccctccc tagtctctgc tcccaatgtg     600
actcatccca aatctttctt ctttctctcc tttctgttcc ttcggtctcc accccaagtt     660
ccgagtcctc tgaatccttc ttttctatgg actcatctga cctcccccct tctccccagg     720
ctgctcctcg ccaggctgag ccaggtccca attctcactt agcctctgct cccccaccct     780
ataatccttt tatcacctcc cctcctcaca cctggtccag cttacagttt cattccgtga     840
ctagccctcc ccctcctgcc cagcaattta ctcttaaaaa ggtggctgga gctaaaggca     900
tagtcaaggt tagtgctcct tttttcttat cccaaatcag atagcgttta ggctcttttt     960
catcaaatat aaaaatccag cccagttcat ggctcatttg gcagcaaccc tgagatgctt    1020
tacagcccta gaccctaaaa ggtcaaaagg ccgtcttatt ctcaatatac attttattac    1080
ccaatctgct cccgacatta aataaaactc caaaaattaa attccggccc tcaaacccca    1140
caacaggatt taattaacct cgccttcaag gtgtacaata atagaaaaaa gtttcaattc    1200
cttgcctcca ctgtgagaca aaccccagcc acatcttcca gcacacaaga acttccaaac    1260
ggctggaccg gcagcagcca ggcggttcct ccagaacctc ctcccacagg agcttgctac    1320
```

```
acgtgccgga aatctgggca ctgggcaagg gaatgcccgc agcctgggat tcctcctaag  1380
ccacgtccca tctgtgtggg accccactga aaatctgact gttcaacttc acctgggcag  1440
ccactcccag agccccgtgg aacctctggc ccaaggctct cttgacttga ctccttccca  1500
agatctttgg gcttagcaag ctgaagactg acacttgccc gatccgcctt cggaagcccc  1560
ggagaccatc acggacgccg agctgccagt aactctcaca gtggaagcta tctggtc     1617
```

<210> 5741
<211> 867
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (97)...(357)
<223> similar to gi288145 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5741
```
gatttttcaa gtactgctat ttttaaaaaa tccaccagag gcagaggctc ctgcctgtaa   60
taccagcact ttgggaggct gaggtgggag gatcgcttga ggccaggagt ttgggaccag  120
cctgggcggc gtggcgagag accctgtctc tacaaaaaat aaaatttaaa aaattagctg  180
ggcgtggagg aggcatgcac ctgtggtctt ggatacttgg ggggctgagg caggaggatc  240
acttgggccc gggagatcga ggctgcagtg agccgttatt gtgccactgt actccagcct  300
ggacagcaga acaagaccct gtctcaaaaa aaacaaaaac aaaacaaaaa aaatcctggc  360
attttcatca catttcatca ttggaatagc cttactgtat ggatagtgcc cataatttta  420
aaataatttt taaataatta ttgcttaatc agataattgc taaagtaaaa tttcccaaat  480
tttgctttca catcgacatt tatttgctat cactgagttt gtacccctaa tccattaaaa  540
agtagaaaac agtgaaatag ggcatttgtt ctaagtaatg ggagaagatg taactggaga  600
agatggaaaa aagttgtaag aaccactgct ctgtataggt tgtaaaagca gtattaaata  660
tggtgcctgc ccttgctaaa ggtaacatga agtaataggt agggtaaatg cactcagctg  720
tgtgggttgc ttgaaagatc ttgtgagcct gttcactctt gcagttgaaa gactggatca  780
cttctttctg gcgttgttta tttttatgca gactccagcc tggacagcag agcaggaccc  840
tgtctcaaaa aaaacaaaaa caaaaca                                       867
```

<210> 5742
<211> 1722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (268)...(1208)
<223> similar to gi6002700 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
        <400> 5742
agcttccagc ccagtcggcc cggcccgggg gccatggagc tccgagcggc ggatcgcgag        60
cctcctgcga acccccagcct gcacgcccgg ttagcattcg gccgggagat gcggcagtgg       120
aatctggaag ggcggtgaaa aacctacgtc ctgccctcgc ccggcctctc cattcgtccc       180
ccgggtagag aggtgcccgg ctcccacccc ttcccagccc cagccctgga gacagcagcc       240
cctagactac tgagggacag cgacagcatg aaggctccgg gtcggctcgt gctcatcatc       300
ctgtgctccg tggtcttctc tgccgttcta catcctcctg tgctgctggg ccggcctgcc       360
cctctgcctg gccaacctgc ccctggaaca accaacttcc ccaacaggct cccaggcccc       420
actgtgcccg ggacccctgc aacttcaagt ggaataatag cagtgtgcca agatgggaaa       480
gccgctggtc ccgcgaagcc cctgccgcaa gctgtgcccg tggtgtccca gctccggccc       540
aaatgctggg ctcaggccct gggtgctgag atcgacagtg cccgagtgcg tgttccgcat       600
gaaccaggcg ccccaccgtg ggctttgaag gcggaatgtt gggcccagcg cagcaccctg       660
cgtgtcgtct cacacacaag cgtgccgctg ctgctggcgc aactattcac actacttcca       720
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tctttctcat caagattcta gcagccagcg ccctctgggc tgcagcctgg catggacaga     780
agccagggac acatccaccc agtgaactgg actgtggcca tgacccaggg tatcagctcc     840
aaactctgcc agggctgaga gacacgtgaa ggaagatgat gggaggaaaa gcccaggaga     900
agtcccacca gggaccagcc cagcctgcat acttgccact tggccaccag gactccttgt     960
tctgctctgg caagagacta ctctgcctga cacttgctt ctcctgggac cctgggaagc    1020
agggacttgg tttgagggga gttggggagg ttgtaagaac accttgacaa tttcttgaat    1080
attttggaca ttttaaacac ttacaaataa atccaagact gtcatattta gctggaaaaa    1140
aaaaa                                                                1145
```

```
<210> 5746
<211> 1242
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (872)...(244)
<223> similar to gi2370153 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
<400> 5746
tttttttttt ttctatttaa tagtgtctga catttattaa aaataaggaa aaaacctttg      60
tacaggtagt gtattagagc agggaaggga gcagggctta ctgtgttgaa caaaaggcac     120
ccatcagaga gacagctgca aattcagaag aaaacaggat tctaggcaaa actaactggt     180
ccacaggaga aaatgagaga ttcgatttgg ttgccaggca cacttaagcc ctggcagcta     240
tgtggcagga acacaagagg tctctgggga tggggaggaa atgggtctcg ctgaaggtga     300
caggctcctt gggggacggc cagctgtctg gatcactgtc caggggctgt gtccagctcg     360
gatacctccg aggtgagtcc acatcactag gagccacagt ctgttggtga gatgcggtgg     420
atggcgatgg cagtggtagc gtaggtctgt gggcagaatg atgtagttgg ctggcagtct     480
ggaggagtgg aggtgggttg gcagcagcgg ctgtgggtgg tctgtccagt atgtaacagg     540
agcccagctt gcacctgaag tgcaggacag cgtccaaatg tgcatggagg ggctgggctg     600
gcaaaagagg gcggaggcag cgcgctctag agtgcggccc aggagctgca gcaggagcct     660
ggagcgctat tcctggaaca aaggcaagca ctacgcggga ggggacagga gcgcagggga     720
catcgcggcg gctcgagggg gagggaggcg cggagggagg gcgcctgtgg agaccctagc     780
ggtggccact ggcacagcga actcttccca gagcacccgc ccccaggccc aagggtctcc     840
cggcctagaa gtcctcgtcc tcctcccatc caaagacccg cttcatctcg gccaggaagc     900
cccggtaatc attgagcagg gggctctcct tcctgatgta ggggatcacc cactgcaggg     960
ctggccccgt gaggcgggtg atgaggaacg tcaccttcag ggcgtcgttg gagaacgtgt    1020
```

```
tctcgtccac gaacatgtag gagctcgtct gcacgatgaa ctccgggagt cggtcggtat    1080
ctccgtcaaa cgtctcggga aagggaatcg ggttcctcca gcgacgcgcc gcgggccgga    1140
ggggcccggc caggagggcc ttcatcagct gcacccgacc gtccatcgtg ccgcgcgcgc    1200
tccgaagagt tacgctgggt tgcgtggggg tcagcgctaa gg                       1242
```

<210> 5747
<211> 922
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(923)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (638)...(922)
<223> similar to gi1389766 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5747
```
aattgagacc ctttgcatgt gatggcattc acaaggcaaa ttacttgctg aaagaatgcc      60
aagggtcgga gcagttggag ctctatatga tggtgccagc tgtgggcagc atggtgacta     120
ggttggaagt ggcatgtgga gttgtcaggc accacctgcc atttaacttc tcattttct      180
agtttgaaaa tggtatgagc ttcgttcttc ctttcagatc catgagacaa tagaaaccat     240
caaccagctg aagactcagc gggagttcat gctgagcttt gccagagacc ctcagggttt     300
catcaatgac tggcttcagt cccagtgcag ggacctcaag gtaaagaacc tangagaggt     360
ctgaagggac ttangtcagt gaggtgcaca gctgctttat tcatgtagca gctggtagga     420
gacccagagg aaggagtgag gggccagatt tttctttagc atgttccagg gtccattttg     480
caattaagca gggaaatggg ggcagagcca tcaagtgttg atttagtgct tactttgtct     540
gtcactgtgc ttcatcttgt cagggataca gagtggaaga cctgatctct gctttcaaag     600
cagcctacat tctgtctgaa gaaactaggc tagtatagcc gggcatggtg gctcacacct     660
gtaatcccag cactttggga ggccgaggcc gacggatcgc ttgaggtcag gagtttgaga     720
ccagcctggc caacatggcg aaacccgtc tccactaaaa atacaaaaac ttagctgggc      780
gtggtggtgc acccttgtaa tcccagctac tggggaggct gaggcaggag aatggcttca     840
ttgaacccag ggaggcagag gttgcagtga gccgagatcc gtgttactgc gctccagcct     900
ggggtgacaa gcaagacttc ag                                             922
```


<210> 5748
<211> 3556
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 5748

```
cgacgatttc gtgtgggacc aacggacgga cggacggacg cgcgcaccta ccgaggcgcg    60
ggcgctgcag aggctcccag cccaagcctg agcctgagcc cgccccgagg tccccgcccc   120
gcccgcctgg ctctctcgcc gcggagccgc caagatgggg gacaagaaag atgacaagga   180
ctcacccaag aagaacaagg gcaaggagcg ccgggacctg gatgacctca agaaggaggt   240
ggctatgaca gagcacaaga tgtcagtgga agaggtctgc cggaaataca acacagactg   300
tgtgcagggt ttgacccaca gcaaagccca ggagatcctg gcccgggatg ggcctaacgc   360
actcacgcca ccgcctacca ccccagagtg ggtcaagttt tgccgacagc tcttcggggg   420
cttctccatc ctgctgtgga tcggggctat cctctgcttc ctggcctacg gtatccaggc   480
gggcaccgag gacgacccct ctggtgacaa cctgtacctg ggcatcgtgc tggcggccgt   540
ggtgatcatc actggctgct tctcctacta ccaggaggcc aagagctcca agatcatgga   600
gtccttcaag aacatggtgc cccagcaagc cctggtgatc cgggaaggtg agaagatgca   660
ggtgaacgct gaggaggtgg tggtcgggga cctggtggag atcaagggtg agaccgagt   720
gccagctgac ctgcggatca tctcagccca cggctgcaag gtggacaact cctccctgac   780
tggcgaatcc gagccccaga ctcgctctcc cgactgcact cacgagaaac cctttgaaga   840
ctcggaacat caccttcttt tccaacaact ttgtagaagg cacggctcgg ggcgtggtgg   900
tggccacggg cgaccgcact gtcatgggcc gtatcgccac cctggcatca gggctggagg   960
tgggcaagac gcccatcgcc atcgagattg agcacttcat ccagctcatc accggcgtgg  1020
ctgtcttcct gggtgtctcc ttcttcatcc tctccctcat tctcggatac acctggcttg  1080
aggctgtcat cttcctcatc ggcatcatcg tggccaatgt cccagagggt ctgctggcca  1140
ctgtcactgt gtgtctgacg ctgaccgcca agcgcatggc ccggaagaac tgcctggtga  1200
agaacctgga ggctgtagaa accctgggct ccacgtccac catctgctca gataagacag  1260
ggaccctcac tcagaaccgc atgacagtcg cccacatgtg gtttgacaac cagatccacg  1320
aggctgacac cactgaggac cagtcaggga cctcatttga caagagttcg cacacctggg  1380
tggccctgtt ttgacatcgc tggggttttg caatcgccct gtcttcaagg gtggtcagga  1440
caacatccct gtgctcaaga gggatgtggc tggggatgcg tctgagtctg ccctgctcaa  1500
gtgcatcgag ctgtcctctg gctccgtgaa gctgatgcgt gaacgcaaca agaaagtggc  1560
tgagattccc ttcaattcca ccaacaaata ccagctctcc atccatgaga ccgaggaccc  1620
caacgacaac cgatacctgc tggtgatgaa gggtgccccc gagcgcatcc tggaccgctg  1680
ctccaccatc ctgctacagg gcaaggagca gcctctggac gaggaaatga aggaggcctt  1740
ccagaatgcc taccttgagc tcggtggcct gggcgagcgc gtgcttggtt tctgccatta  1800
ttacctgccc gaggagcagt tccccaaggg ctttgccttc gactgtgatg acgtgaactt  1860
caccacggac aacctctgct tgtgggcct catgtccatg atcggcccac cccgggcagc  1920
cgtccctgac gcggtgggca agtgtcgcag cgcaggcatc aaggtcatca tggtcaccgg  1980
cgatcacccc atcacggcca aggccattgc caagggtgtg ggcatcatct ttgagggcaa  2040
cgagactgtg gaggacatcg ccgccggct caacattccc gtcagccagg ttaaccccccg  2100
ggatgccaag gcctgcgtga tccacggcac cgacctcaag gacttcacct ccgagcaaat  2160
cgacgagatc ctgcagaatc acaccgagat cgtcttcgcc cgcacatccc cccagcagaa  2220
gctcatcatt gtggagggct gtcagagaca gggtgcaatt gtggctgtga ccggggatgg  2280
tgtgaacgac tcccccgctc tgaagaaggc cgacattggg gtggccatgg gcatcgctgg  2340
ctctgacgtc tccaagcagg cagctgacat gatcctgctg gacgacaact ttgcctccat  2400
cgtcacaggg gtggaggagg gccgcctgat cttcgacaac ctaaagaagt ccattgccta  2460
caccctgacc agcaatatcc cggagatcac gcccttcctg ctgttcatca tggccaacat  2520
cccgctgccc ctgggcacca tcaccatcct ctgcatcgat ctgggcactg acatggtccc  2580
tgccatctca ctggcgtacg aggctgccga aagcgacatc atgaagagac agcccaggaa  2640
cccgcggacg gacaaattgg tcaatgagag actcatcagc atggcctacg gcagattgg   2700
aatgatccag gctctcggtg gcttcttctc ttactttgtg atcctggcag aaaatggctt  2760
cttgcccggc aacctggtgg gcatccggct gaactgggat gaccgcaccg tcaatgacct  2820
ggaagacagt tacgggcagc agtggacata cgagcagagg aaggtggtgg agttcacctg  2880
ccacacggcc ttctttgtga gcatcgttgt cgtccagtgg gccgatctga tcatctgcaa  2940
```

```
gacccggagg aactcggtct tccagcaggg catgaagaac aagatcctga tcttcgggct    3000
gtttgaggag acggccctgg ctgccttcct gtcctactgc cccggcatgg acgtggccct    3060
gcgcatgtac cctctcaagc ccagctggtg gttctgtgcc ttcccctaca gtttcctcat    3120
cttcgtctac gacgaaatcc gcaaactcat cctgcgcagg aacccagggg gttgggtgga    3180
gaaggaaacc tactactgac ctcagcccca ccacatcgcc catctcttcc ccgtcccca     3240
ggcccaggac cgcccctgtc agtcccccca attttgtatt ctggggggag gagccctctc    3300
ttcctgtggc cccaccttgg cccccacccc ctccactatc tcctgccgcc cccactctgg    3360
ctggcttctc tccctgccc caaacctctc tcctctctct tttctgtgtc agtttctctc     3420
cctctcctca cccctctatc cattcctccc gccccagcca cctccctggg ctcttttta     3480
ctcccttca gccccccggc tgatgccatc tctggttctg gacaattatc aaatatatca     3540
ggggggaaaa aaaaaa                                                     3556
```

<210> 5749
<211> 2242
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (75)...(1360)
<223> similar to gi595380 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5749
```
tgctgccagg gcgccgggcc cggggaggcc ggggtctcgg gtggccgccg gcccaggcgc      60
tggacggcag caggatgggg aaggcgaagg tccccgcctc caagcgcgcc ccgagcagcc     120
ccgtggctaa gccgggtcct gtcaagacgc tcactcggaa gaaaaacaag aagaaaaaa     180
ggttttggaa aagcaaggcg cgggaagtaa gcaagaagcc agcaagcggc cccggtgctg     240
tggtgcgacc tccaaaggca ccagaagact tttctcaaaa ctggaaggcg ctgcaagagt     300
ggctgctgaa acaaaaatct caggccccag aaaagcctct tgtcatctct cagatgggtt     360
ccaaaaagaa gcccaaaatt atccagcaaa acaaaaaaga gacctcgcct caagtgaagg     420
gagaggagat gccggcagga aaagaccagg aggccagcag gggctctgtt ccttcaggtt     480
ccaagatgga caggagggcg ccagtacctc gcaccaaggc cagtggaaca gagcacaata    540
agaaaggaac caaggaaagg acaaatggtg atattgttcc agaacgaggg gacatcgagc    600
ataagaagcg gaaagctaag gaggcagccc cagccccacc caccgaggaa gacatctggt    660
ttgacgacgt ggacccagcg gatatcgaag ctgccatagg tccagaggcg gccaagatag    720
cgaggaaaca gttgggtcag agcgagggca gcgtcagcct cagcctcgtg aaagagcagg    780
ccttcggcgg cctgacaaga gccttagcct tggactgtga gatggtgggc gtgggcccta    840
aggggggagga gagcatggcc gcccgtgtgt ccatcgtgaa ccagtatggg aagtgcgttt    900
atgacaagta cgtcaaacca accgagcccg tgacggacta taggacagcg gtcagtggga    960
ttcggcctga gaacctcaag cagggagaag agcttgaagt tgttcagaag gaagtggcag   1020
agatgctgaa gggcagaatt ctagtggggc acgctctgca taatgaccta aaggtactat   1080
ttcttgatca tccaaaaaag aagattcggg acacacagaa atataaacct ttcaagagtc   1140
aagtaaagag tggaaggccg tctctgagac tactttcaga gaagatcctt gggctccagg   1200
tccagcaggc ggagcactgt tcaattcagg atgcccaggc agcaatgagg ctgtacgtca   1260
tggtgaagaa ggagtgggag agcatggccc gagacaggcg ccccctgctg actgctccag   1320
accactgcag tgacgacgcc tagcagtcct gccctgctgc tgctgccgcc ccgctacaga   1380
ggcaatgtga ccagtcacag ggacagatca catctcccca gagtggcaac tctggtgaaa   1440
cctttttcaga atcatggcag aggggcgtgg cgtggtgcta ctgagaaggt cctccttcct  1500
cttgactttg tggtctgaaa cctggtctta ctgtccatgt gtgtttgggc ccggatggtc   1560
```
```
                                            4288
```

```
agggtggggga gcagggacgg ccatgggcac gcctggccac gctttaccga ctgctgaccc    1620
cctgggccag gtgaggttgg ggcctgtggg ccgccagtcc atacggtgct gtcactgccc    1680
atcttcggtg acaccctggg gtgaggtgct cagcaccttc ctctcgagga gccacatttt    1740
cctcctttgt gttaggggac ataacaagct ctgctgggct tgagggaccc agaccaggtg    1800
tctgcagtca gctcctgaga cacagctggc cggcacaaca ggtgttacat caggggtttc    1860
ctgtggccgt ttgaactttg agcatttatc taaattaaat tggcccaggg ttggctggtg    1920
ggtcacccag cagaggcttc tccccatagc acgaggatgt gttgcctggg cacggtgact    1980
gcggttattc ctggaggtcg gcagacatgc caaccttggg ctatttgagc tggagaagct    2040
atgtgatgct agccggtggc tttctgggct aggccccagt ttgaggctcc cctgggaact    2100
agagccagga acagccagtg gcactgacaa ggggacggag tccaaggcgt tattgggcca    2160
cctgacagct ggacagaaaa ggggcagaca caccgaggat gcgatttaaa ataaatgcag    2220
atgtttactt ggaaaaaaaa aa                                            2242
```

<210> 5750
<211> 2329
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2330)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2194)...(801)
<223> similar to gi470340 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5750
```
tccccacctg aacctgtggt taccaatgct atgcgagaag acctggcgga tatctgttac      60
atcagggctg tgaccgtcta cgacaagccc gcatctttct ttaaagagac acctctggac     120
ctgcagcacc ggctcttcat gaagctgggc agcatgcact ctccgttcag ggcccgctca     180
gaacctgagg acccagtcac ggagcggtcg gccttcacgg agcgggatgc tgggagcggg     240
ctggtgacgc gtctccgtga gcggccagcc ctgctggtca gcagcacgag ctggacagag     300
gacgaagact tctccatcct gctggcagct ttagaaagta gagtttgaac aactgactct     360
tgatggacac aaccttcctt ctctcgtctg tgtgataaca ggcaaagggc ctctgaggga     420
gtattatagc cgcctcatcc accagaagca cttccagcac atccaggtct gcacccctg      480
gctggaggcc gaggactacc ccctgcttct agggtcggcg gacctgggtg tctgtctgca     540
cacgtcctcc agtggcctgg acctgcccat gaaggtggtg gacatgtttg ggtgctgttt     600
gcctgtgtgt gctgtgaact tcaagtgttt acatgagctg gtgaaacatg aagaaaatgg     660
cctggtcttt gaggactcag aggaactggc agctcagctg cagatgcttt tctcaaactt     720
tcctgatcct gcgggcaagc taaaccagtt ccggaagaac ctgcgggagt cgcagcagct     780
ccgatgggat gagagctggg tgcagactgt gctccctttg gttatggaca cataactcct     840
gggccagagg ctaaaacccc aggacccctg ctgtccttcc cgcagcttct tcttggagtc     900
tcagggcaaa cccttcgag cagcacctcc cagtggccag aagctgaaat gacagcagtg     960
gtactgcctg gtaaaagaat tggttctgtg acccgggaag ctttggttgg ccttgatttc    1020
ttctctggag gcttggaaac gcttcctctc ttcttctgtt cttcacgccc catgcccctg    1080
ctagcgtatt actgttctgt gacttccctg tgacctctgc agaactcctc atcctgcgtt    1140
tggtctccag gtgtcccctt tctgccgtgt tcctaacatt ttgattcctg tcttgaaaaa    1200
```

```
agcacctgct gcaccgtaag cccagggatg tggcagctgc agtgggcttg gctttgtgag    1260
gaactgagtg tgtccacgtt gggggaacat catacttgat acacacgttt ttatttgcac    1320
aaagaaaatg ctgttttttgg agccagaatt ttcatgtctg atttatggtg attttcttaa    1380
gaaccagaac tgctggcaga aaggggggcac ccacacgctt agatagccga tgtcttatta    1440
gagggcagtt tgtggttcct gatttggaaa ttaacattct ccaaacattc cagtccaatg    1500
aaagttttat ccgctttccc atataaaaat tcttcccatg agagtgactt gattctcaca    1560
atcccgttgg agtcgtgtgt gagtcctaca gtattaggtt cagcattgcc atctccaagt    1620
gctcttcgta gggaaacagt ttctggtcat gacaagcttc cacttcccat ctgatcccgg    1680
cccggccggc ctctgcccga gttccctgca tggtgtggga gtgtggggca tgctagcttt    1740
acgccggcgc ccagttcttt cacttccact ggagtcctgc agggacagct cggggaccat    1800
gcaggcccgg gtgggcgtgg ggactcaact agctcagtgg tgaacagctg gcacgtctgt    1860
gggttgtgga cggtaaaggc cacgtagacc tcaggagccc gctggtgctc ccggcaggca    1920
gccagcctcc gcaggacccc gaccagcgac acgatggctt ctgggcaata cagcacgtca    1980
gcaaatagct ccggtggccc tgggtggact ccttggccat cagggtctcc gccagcacct    2040
cgtacagctc atccaaaggc tctgtgtgga cagcctcgtg cttttttgatg agttctgaga    2100
gaaagcaccg ggcatacttg actgacggcg ggtgcttcac acacacagga tgcttcacag    2160
tctacttctg caaaatatcc cgcagcagct cagaatctga tgagtctctt aactttgctt    2220
ctaagctctg ccaggggaag gagcgcaggg cgcgcgccgc caggaagcgg cgcttgaaac    2280
tctgcagcaa gagttcgctc cccgacgaaa tcgtcggtnn nngaaaaag               2329
```

<210> 5751
<211> 2166
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2167)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1382)...(1928)
<223> similar to gi433011 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5751
```
ttttttttttt ttattttaac aaatccaaag tttaattatt aaggattaca aatatttta     60
gcagtgtagt taggcaatcc aagcctggac ttccacttca ttcctactaa actacttgca    120
gagctgagga ggcaggagac tagagtacag agagcatttt agttctatca caaaggtcta    180
gaactgtctc tacagtcaca ggaagaaaca ggtatggcac cgtggccaga aggggggtagg    240
tattcacaga gagtgggtat caaggtgtca aactttgtct tctgatagtt ttccagagat    300
tcctgtagag aagggagcag ggagagccta ctatccgaaa ccattccctg aaccctctga    360
attctgaagc atgtggattt ctcagtcttg ttctacccat ccccttttccc agctttctgc    420
tccttcccac tcacctttcc ttcccccctgg ccattttctt cctcatcaga gtctaaaacc    480
aagtcccta tggtaatgac ggagctgcac agagacggag gacacactgt aggagggaaa    540
ccagaatcaa actactactt ctagatgaac acaggctctt gagagtcccc aagagaggag    600
gctgttgatc caatcctgac tcagactacc tacctggctt cctggcccta ggaggtaata    660
atgatagtct caggggtcc atgtagcaat ccaagcaatt cctgaggtga gagcaagcaa    720
agaggatagg atgaagggaa ggcaggcaaa gaatgtgctc ctagtaagaa gcaactctgt    780
```

4290

```
tccactcact ccttttgctc tgtggcaggc aagtcaactg ggttctcctt cagagccctt      840
cccccaggg  tctggcatgg actcttagac ttcccagtgg aggctgctct tgtgcccatg      900
gctaggtctg ctgtgtatat cgcatgttct tccttgctct caggcttaga tatgacctgg      960
gttggtgagc cgagattcct aaagggaaac agcatgactg tggggcgctc cttatggcct     1020
cccctagtgg aggcccattg ggactgaact cttcgtcggc ctagaggggc cagattgaag     1080
tgtcggccag ctagaggttc tgggtgcgtc cttgaagatg gtccctgagg aagatgtgtg     1140
ccaggcttgg cttttggcag gggattgtgg agtgctagtc tttgttgctg aggaggattc     1200
tgttccatgg gctcagccag gttcactgag tcagtaacag agcactctgg aagcagccac     1260
cccatgtcca caccatattg tctccaggca agagaagagg tgatagagac tccaggctgc     1320
atccaactca gcacatcctg aagctgctgt gcctgcggtg taggcagtgc tttctccagc     1380
tgacacaagt actcaaaaag cagcttttcc atggcagcca gaaagggttc cccatactct     1440
tgttcaagtt cctgcagctt cgaggccaaa tccacaggag cctctgacag ctgcttcacc     1500
tgctggtaaa aagtttcctg tgcctccaaa atcttcctca gatcctgctt tgtagccttg     1560
ggatcccgca ctataggtcc agattctgga aagtggtgat tcagggcttt caggacttgg     1620
gcccaaggcc ggccctgcag gatcagctcc accaccacct tggcctttag gcccatacaa     1680
aggcgttcgt ggtgccggta gcgaaccaag ccaggggcaa cagcgcgcag agatcgcaga     1740
aactccagta ctcgcggaaa atgttccacg cagcgtccgc gcacaacctg ccagctagcc     1800
gcggcggcga agcgtagagc tgcgggaccc gccaccaggg gcgtagccat ggtcggcggg     1860
ctccgcccgg aggcggtccc tccgggttcc tcacccggat gggtgaggct ttccgatcac     1920
tcctaggggc ggggcttctg gcaactccct gtcgctccgg tctgtcggct ctgggtacct     1980
cgcgatctga ctcggctccc ttccatcggc ccccagaatt ctggggggagg gggtcttctg     2040
gctcgggctg gaggagcctg agtggagaag ctgaccgtct ccagtggcac tgggtcgctc     2100
agctttaaac gtcgccgctg tctcgagccc gagggtgcct cacttccnnn ncgctactag     2160
cttccc                                                                2166
```

```
        <210> 5752
        <211> 3136
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(3137)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (3125)...(730)
        <223> similar to gi3273089 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 5752
tttttttttt ttagattttc caactacaca gtttattaag taaagtatct caacaatatc       60
tcagagcagt aaaaaccaag gcatccccaa acactgcatg cgtgacttag accagcaaag      120
aagtcctcaa actttgcacc aagtcccaac attggccagc aggggcaag  tggtgaagtc      180
ttccggaacc caagtgcctt ggcgctgact ggcccccatt cgatgagtga gcttggatga      240
cagggccggc ttggagatag gacaatcggc ttcacagggt cctttcatg  tccgatcccc      300
ttaagcattc ccgagggagc cacaaggaac ttgggggcgg tccgtgcaaa gcgtcggcat      360
tgaacagggg gtctgtttgg gaggcttgaa tggctctggc tgcctctggg gtggccttca      420
agccaaactg ggaaacgact tgtctataac ccctggggaa ctcgaagtgt tcgatgctca      480
```

```
ctcgggaagc actgataacc ttccccatag gggaaacgac tcacaaacac aggactccgt    540
cagtagtttc tgcagagaaa cttaaaatca tgaaaagggt catcaatcaa cagatctcag    600
aagtcactgt gcagggacta ctgagggccg cgagaggaag tgcaaacctc agctgaaaag    660
caactcaggg tggctgagtg agccctcact tcccggacca cccgcacgtg cagccaacac    720
ctcccaacta cttgggccaa gtcggctctt cgcctccaag tggaggctgc tgggtctctt    780
cggtctcctc ctcgccccaa gtcctgtttc tccctctggg cgtcggaacc aacctctgcg    840
gtgcggatca ttttcctttc gnccatgggg cggcgggcca atgagagcct caatgtccct    900
caatagttta tcacttcctt ttccagaagg gcgtttgcca cgcctgcaa cttgtcccag    960
gttgtcctgc agcaccttct cggtgtgtct gtaggccttg gccaccagca gtcttgcttc   1020
atggtccatc atctgctgca ggccttggct gaaggggcgc cgcccgatgc ccatgaggcc   1080
ctcctgcgcc tcagggaagg agatgggccc gatgccaggt gccatcccaa actgcttcac   1140
catggagtag gcgatgcggg tgaccttcct caggtcgtcc tgtgccccag aagtgacctc   1200
gttgaaggac agtgcttccg aggcccgtcc tcccaaggcc atgcacatcc gctcaaacag   1260
ctgctccttg gtgaagaggt gctggtctct ggggagcatc tgagcaaagc ccagggcggc   1320
gtttgtccga ggggttatgg agaccttcat cacggcctcc gtgtgctcca gcatccagcc   1380
caccaaggcg tggcccgact catgaaacgc aaccactttc tgttcttcct tggacaggat   1440
cttgctcttt ttggcagtcc ctgcgaggac gcgctccacg gcgtactcga agttgagagt   1500
gtgcacgaga agtgtgtccc taccgcgccg cgtgcagcac agcctcttgc cagatgttgg   1560
cgatgtcagc cccactgaat cctggtgtca gctctgccag acgctgggag taaaaggtgc   1620
tggactgggt cagcttcagg ctcttcaggt gctgctcaaa aatctcccgc ctctcctgca   1680
gcgtggggag atcaatgaag acgtgccggt ccagtcggcc tggcctcatc agagcaccgt   1740
ccaaaatgtc agctcggttc gtggacgcca ggacgatgac atggtctgtg gtacccattc   1800
catccattta aaccagaagc tggttgagcg tctgctcctc ctccgtgttg gagaagccgg   1860
acatggtggt ggagcgcttc ttgcccaccg cgtcgatctc atcgatgtag acgatgcagg   1920
gggcccgggc tcgggcttcc ttaaagaggc tccgcacacg ggcagcgccg aggcctccaa   1980
tgacctccac gaactctggg ccggccatcg ccaggaaggg cacctgagcc tccgtggcca   2040
ccgccttggc cagcagcgtc ttcccacagc cgggggggcc gagcagcagt cgcccctttg   2100
ggaccttggc gccaagctgg aggaagcgtt ctgggctctt cagataatcc acaaactcgc   2160
ggacttccag tttggcttcg tgcattcctg ccacgtcttt gaagctgact cctttcccca   2220
tcttcccatc cacaatggtg aaacgagcca ttttaagctg attaaaagca ctgaatccac   2280
cttcccttcc agtcatcccg gccagacgga aaacatacca caggatggcc aggcccactg   2340
ccgtcatccc cacagagtac agggcatttc caaagaatcc tgttcgcttg taggaaactg   2400
ggatcctgtc cttggcctcg atattcagct catcttcagc tgctcgaagc ttctcttcaa   2460
acttgtcaat atttgcaacc tgcattcggt acatcaaggc tagccgaggc cgcccaaaca   2520
ccacggctcc agggtgcagg tagacttcca ccacgtcgct ctcaggcacc acctggacgc   2580
gctgcacctc gcccttggcc agcatctcgt ggacaaagtc gttccaggaa atgctgcctc   2640
cgctggtgct gagagcattc aggaggctca tgacaaccgc gatgaccagc aaggtgcgca   2700
gccgctctcg gtacatctgg tcgtcccgct cacggcgtct cctctcctct tcgtcctctt   2760
caggcgcctt ccccttcgac ttatccttct ccttattctt ctgcttcaac cttgaggtgt   2820
taaaatagaa agtaccacct aaaagttgcc agagtctgac tggattctga actaaatgtt   2880
gtttcaacaa caatccgttg atcccttcaa aggtaggggt tagcagtctc aattgtaagc   2940
tctgcagagc tcggcctcca gcctcggcga ggtcccccgg aggcctgctg gccatgtacg   3000
gccgccccct cccgggcctg gcggggaacc ctggactcca ggccgggcct gggccccaca   3060
gcggccgagg acccgggcct ggaccccggc ggagggcacg gagcagcagc agcagcacgg   3120
ccatgttggc ctgaaa                                                   3136
```

<210> 5753
<211> 2137
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 5753
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tttttttttt ttctgtttat gacactttat tgatgctggg ggggtggggga ggagacctgg      60
agaaatatgt gggggcaaga gtccccaggt ggggacaggg aaagtgttga agcctggcca     120
ctactgggca gggaagacag agttgccact gtatgcacag gggatgagca gctgccggta     180
ctccagggggc aggtgccgct ccactagcac gtgcagtgag acttggtcag tgaccaggcc     240
ctgccgccgc atcagcagct ccaggtcctc tggcttcaca gtcttgcggc cagcatgagc     300
agcaaatacc tccagatcat cacaaagatg ctggaaatat ttatctaggc acttctccac     360
catctcaaga gccttcctct ccatggggca tcttgggcat aagaagctaa aagagttttc     420
acattagtgg ctcatatccc agccttgtgg ggatcttgcc ggggccctgg ggccggtggt     480
ccggggccta gggggatgcc ctgaccaaca gaggctctgc aggctctgaa gataagactg     540
cagcaccagg cgctggggct ggctcaagaa actgatgatg tcgcctggcc tggagagact     600
caggggtgct ggaggccgac tctggacttg ctgccctgcc agaggcatcc tcatcccctg     660
aagatgctcc tggcccgtca gcctcagcag tcccctggga tccctctgct tctgtcacct     720
ctgtgtgtcc ctcagcctct tctaccctgc tgggtccttg tgctcctgtt gcctccattt     780
cactcacact cacaccttct tcttccatct ttttctctgc ctcttcaact ccatcgtgta     840
agggctctac ttcatcttct ccagagacac cactgctggt gctcaggaag cccagagcaa     900
aggcattgac ctcctctgcc tctcctgcca gaaactgggc tggtttccca gggcctgagt     960
gaaggggaga gaatacaggc cggagacgca gcaggccaag gctgcatagc tcagagaagg    1020
gtaaagatgg accagcagac ccagtcctgc ccactgagga aagacaaagc cagaggcagc    1080
accaggacat ggatctgaag tctcctggcc caacatggac tctgctcttg gatgaaggag    1140
gcagccacag ccagggtgct ctaggggcac agaggggctt gaggaaggaa aactaccatt    1200
gtcaactctc acccaagcta aatttggctc caggccacca gtgccacaca ctcactattc    1260
ttctgcagcc caggcccact gctctgtgtc ttgcgaccgg cagcctgctc agcgtcttca    1320
gccccagtgt gaggcgtgca gggcagggag tgatacacgt tgggggagcc aaccatgggc    1380
tgagagaacg gctgggtgtc ctccaacaca atgtttggag gagccaggga agtatctcgc    1440
agatcccgca aaaaggcacc cacgtctaca gctcggcggg ctggaggtct gcgggccaag    1500
ccaggcctct gcactgactg tggctgaaga ggtgtggcaa aggtcaggtt gagggatctg    1560
gtgagggaag aggcatcagc attcccttga ggctcttggg agagagacag ccccctggtcc    1620
actccctgct gaaacactga cagtctcagc ctctgtttcc tcctgccagg ggccagcaga    1680
cctggagcca gggttgtggg gggctcgagc tcaggaagtt gcagctccag gctgccgcaa    1740
ctgctctctt gtctggaggg ttggaccgcc tgcggtgctg gcactggctt cactaccgac    1800
tcaggcatca ggatggaaga ttctggggca gttagtagga tgttcttcag cagcgtccga    1860
ggtgtctgtt cctccaagtg cccactggcc tgaatatggg ccgatctgcc aacagacctg    1920
gctccatggg aacgccctct ggctatcgtc cttgtttggc cactcaactt cctgggggaa    1980
gccgtttcaa gcagggctct ccgggctcca gcccgagcac tccggggtcg ccgcggggtg    2040
cgcgggtccg ctgtatccag cacgcgtcgc agcagcgtgc gcggcgtgga gtcgctgtca    2100
gggttgtggt cagccatcgt ctcggccccg gacgaaa                            2137
```


<210> 5754
<211> 824
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (319)...(636)

<400> 5754
```
ggggatgggg cctctatact tgcaagggag aggaacaggg accaggctgc cccacggtcc    60
ctgaagggtc caaggagggg ccctccccat ggccctggag agtgggcctg ggtggtacct   120
gctccaggca gggaaactgg gggctcgccc ttctcctgtg aggggagcca ggcacacagg   180
gcccattggt gtttgggatg tggacagagg ggcaggggc tgggagaagg ctaagccgag    240
gggtcctgtt tgtgcctccc tggcattttt tgcagacaag ggcttgggat ggaccctcag   300
ccccatggta cgccctgccc agtttccaga tgccctgtcc acttacccta ggtagccccc   360
caccccatca gtgccgagtc cttgtcccta cctccagctt cctccagcct caaaccgcct   420
ctggatctag ctgtccttct ccgagtggca cgcctgcccc agggatgccc cctttccctc   480
ccccccatgc ccagagcccc gcctgcctca gcgggtcagg ccttcagaac actgccaccc   540
acccagtttt ataatcccgc tccctctcca ggcaacccca cccaccagcc taggcctgct   600
cctccaccct tcccgggagg cagccccggg atgctgagag ttggtggagg ggccaggctg   660
gacgcttcct gtgggagtcc cctccagacc tggctggccc ctggcagcca cagaaaccac   720
gatggcaaaa aatctcattg gttctcaagg actaacctgt gggggaaagc aatagagaca   780
ctcttttttct ctctttttttt aaagatttat ttcttgaaat aata                 824
```


<210> 5755
<211> 1212
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1213)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (128)...(940)

<400> 5755
```
ggccatagga aaaggcccgg cgtccacgcc tacctacagc cctgcaccca cccagccggc    60
ccctagaatc gcgtcagccc cagagcccag ggtcaccctg gaggaccttt ctgccaccgc   120
cccagcctca tctccaggct tggctaagcc ccagatgccc ccaggtccct gcagccctgg   180
ccctctggcc cagttgcaga gccgccagcg cgactacaag ctggctgccc tccacgccaa   240
gcagcaggga gataccactg ctgccgctag acacttccgc gtggctaaga gctttgatgc   300
tgtcttggag gccctgagcc ggggtgagcc cgtggacctc tcctgcctgc ccctccacc    360
cgaccagctg cccccagacc caccgtcacc accgtcgcag cctccgaccc ccgctacggc   420
gccctccaca acagaggtgc ccccaccccc gaggaccctg ctggaggcgc tggagcagcg   480
gatggagcgg taccaggtgg ccgcagccca ggccaagagc aagggggacc agcggaaagc   540
tcgaatgcac gagcgcatcg tcaagcaata ccaagatgcc atccgagccc acaaggctgg   600
ccgagccgtg gatgtcgctg aattgcccgt gcccccaggc ttcccccaa tccagggcct    660
```

```
ggaggccacc aagcccaccc agcagagtct ggtgggtgtc ctggagactg ccatgaagct      720
ggccaaccag gatgaaggcc cagaggatga agaggatgag gtgcctaaga agcagaacag      780
ccctgtggcc cccacagccc agcccaaagc cccaccctca agaactcccc agtcgggatc      840
agccccaaca gccaaagcgc cccccaaagc cacatccacc agagcccagc agcagctggc      900
cttcctagag ggccgcaaga agcagctcct gcaggccgca ctgcgagcca agcagaaaaa      960
cgacgtggag ggtgccaaga tgcacctgcg ccaagccaag ggactggagc ctatgctgga     1020
ggcctcgcgc aatgggctgc ctgtggacat caccaaggtg ccgcctgccc ctgtcaacaa     1080
ggacgacttt gccctggtcc agcggcctgg cccgggtctg tctcaggagg ccgaccggcg     1140
ctatggtgaa ctcaccaagc tcctcgtgcc aagcaggccg tnntcatntt acagaggtat     1200
tcaggttcct ag                                                         1212
```

<210> 5756
<211> 756
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (384)...(722)
<223> similar to gi804809 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5756
```
gctcaagtga tcctcctgcc ttagccacct gagtagctgt gactgcaggc atgtgccacc       60
acgttcagct aacttttaca ttttttttgt agagataggc tctcagtatg ttgccctggc      120
tggcctcgaa ctcctggggt caagcaatcc tcccaccgca gcctcccaaa gtgctaggat      180
gacaggtgtg agccactgca ctgcaaaaat acagaagacc aaattattaa aactagaaat      240
gagaggggac attactattg ttcttagaga cataaaaagg attataatat gaataaaaag      300
gattatacat ataaacaata tatgctaata attggataga ctggatgaa agacacatta      360
ccagaaagat atgaactact gaatctgact tgagaaaaa acagaaaagc tgaatagaca      420
gacctatgtc aagtaaagag attgaggtag taatcaaaaa actttccact aagaaaagct      480
gaagaccagc aggcagcctc actggtgaat ctaccaaata cttaaagaag aattaacacc      540
aatccttcat aaagtctttc aaaatacaga tgaggaaaga acatttccta acttattcta      600
tgagggtgat attaacctgg tatccaaact aaagacatca cacacaaaaa attacagacc      660
agtatttctt atgaatgtag atggaaaaat gcttgacaaa atctggcaaa ccaaattcaa      720
cggagtattc tgtaaacatg aagcagataa taatag                               756
```

<210> 5757
<211> 2932
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (152)...(1752)
<223> similar to gi5834428 in the genepept database release 114,

4295

Run with FASTXY 3.3t00, default parameters

```
<400> 5757
agaaccaccc gtccggccgc ctcgagcgcg gtcctagcgt tcagcggact cgcgcggcct      60
cgatctctgg actcgtcacc tgcccctccc cctcccgccg ccgtcaccca ggaaaccggc     120
cgcaatcgcc ggccgacctg aagctggttt catggcagcc tcaaagaagg cagttttggg     180
gccattggtg ggggcggtgg accagggcac cagttcgacg cgctttttgg ttttcaattc     240
aaaaacagct gaactactta gtcatcatca agtagaaata aaacaagagt tcccaagaga     300
aggatgggtg gaacaggacc ctaaggaaat tctacattct gtctatgagt gtatagagaa     360
aacatgtgag aaacttggac agctcaatat tgatatttcc aacataaaag ctattggtgt     420
cagcaaccag agggaaacca ctgtagtctg ggacaagata actggagagc ctctctacaa     480
tgctgtggtg tggcttgatc taagaaccca gtctaccgtt gagagtctta gtaaaagaat     540
tccaggaaat aataactttg tcaagtccaa gacaggcctt ccacttagca cttacttcag     600
tgcagtgaaa cttcgttggc tccttgacaa tgtgagaaaa gttcaaaagg ccgttgaaga     660
aaaacgagct cttttttggga ctattgattc atggcttatt tggagtttga caggaggagt     720
caatggaggt gtccactgta cagatgtaac aaatgcaagt aggactatgc ttttcaacat     780
gtcattcttt ggaatgggat aaacaactct gcgaattttt tggaattcca atggaaattc     840
ttccaaatgt ccggagttct tctgagatct atggcctaat gaaaatctct catagcgtga     900
aagctggggc cttggaaggt gtgccaatat ctgggtgttt aggggaccag tctgctgcat     960
tggtgggaca aatgtgcttc cagattggac aagccaaaaa tacgtatgga acaggatgtt    1020
tcttactatg taatacaggc cataagtgtg tattttctga tcatggcctt ctcaccacag    1080
tggcttacaa acttggcaga gacaaaccag tatattatgc tttggaaggt tctgtagcta    1140
tagctggtgc tgttattcgc tggctaagag acaatcttgg aattataaag acctcagaag    1200
aaattgaaaa acttgctaaa gaagtaggta cttcttatgg ctgctacttc gtcccagcat    1260
tttcgggggtt atatgcacct tattgggagc ccagcgcaag agggataatc tgtggactca    1320
ctcagttcac caataaatgc catattgctt ttgctgcatt agaagctgtt tgtttccaaa    1380
ctcgagagat tttggatgcc atgaatcgag actgtggaat tccactcagt catttgcagg    1440
tagatggagg aatgaccagc aacaaaattc ttatgcagct acaagcagac attctgtata    1500
taccagtagt gaagccctca atgcccgaaa ccactgcact gggtgcggct atggcggcag    1560
gggctgcaga aggagtcggc gtatggagtc tcgaacccga aggatttgtc tgcccgtcac    1620
gatggaagcg gtttgaaacc tccagattaa tgccggaggg aaagtgaaat tccgttattc    1680
tacatggaag aaagctgtga tgaagtcaat gggttgggtt acaactcaat ctccagaaag    1740
tggtattcca taaaacctac caactcatgg attcccaaga tgtgagcttt ttacataatg    1800
aaagaaccca gcaattctgt ctcttaatgc aatgacacta ttcatagact ttgattttat    1860
ttataagcca cttgctgcat gaccctccaa gtagacctgt ggcttaaaat aaagaaaatg    1920
cagcaaaaag aatgctatag aaatatttgg gggttttttt ttttttaaa catccacagt    1980
taaggttggg ccagctacct ttggggctga ccccctccat tgccataaca tcctgctcca    2040
ttccctctaa gatgtaggaa gaattcggat ccttaccatt ggaatcttcc atcgaacata    2100
ctcaaacact tttggaccag gatttgagtc tctgcatgac atatacttga ttaaaaggtt    2160
attactaacc tgttaaaaat cagcagctct ttgcttttaa cagacaccct aaaagtcttc    2220
ttttctacat agttgaagac agcaacatct tcactgaatg tttgaataga aacctctact    2280
aaattattaa aatagacatt tagtgttctc acagcttgga tatttttctg aaaagttatt    2340
tgccaaaact gaaatccttc agatgttttc catggtccca ctaattataa tgactttctg    2400
tctggatctt ataggaaaag atactttctt ttttcttcca tctttccttt ttatattttt    2460
tactttgtat gtataacata catgcctata tattttatac actgagggta gcccatttat    2520
aaattaagag cacattatat tcagaaggtt ctaacagggc tggtcttaag tgaaccactg    2580
tgtatataaa tatgttggaa aacagctgta tacatttttg ggcaacggtt atgcataata    2640
tttaccagga gaattttttt cttaacaagc caacatttaa aatttatgtt ttatgtcaat    2700
aaaagaaaat atactttatt gtgacttcaa ctatatttct tatcccttac atttttattt    2760
aattgtctta gcttaaaaaa agaagaaact gtggaatact acagtaaata ttgttttcaa    2820
acacaagcaa taattcaaat agttattttt cttttgaatt aatttttagac atattttgga    2880
tcctattgag gggataagag gatgtcaaaa aagttaaata cctaagtaga aa             2932
```

4296

<210> 5758
<211> 777
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(778)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (519)...(107)
<223> similar to gi493055 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5758
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tttttttttt ttaagggaga acagttttat tagcatcaca gggtccattt ttccctttcc      60
atccaagcat ccagagtctg gtgtccttta atcagttggc aggttcaacc tggaggccac     120
tggagctgcc ggcccccaag tacatgaatg tgcagatgat acacagattg tgcacccagc     180
ttcccatcgt tgatcacaag tcggtatcca tctcccaggc cctcagcctt tgctgtctgc     240
ttggccacaa ggagtaggtg tcctagaagc tatagagaga gcggagggac ataggtggct     300
gctggtcttc ttcttcagcc tggctaatcc gaggaatggg cttcttagga atgaccagga     360
agtgcacagg agcctgaggg gccacatcac ggaacacaag acactgctgg tcctcataga     420
gaatgtcagc tgggaggctc ttgtccagga tccgggagaa gatggttggg gctgctcccc     480
caggagttgc ctgctgggcc ttggccactt cattcccatc agtcacacct gcagctcctc     540
ggacctgccc cccgcgcacc cccgtggccg ccacggctct gcgcgccgcg cgcaacccag     600
cagccagcac cacggctgcc gccatcttcc ctgagccgcg ggaacctctc acccgggtca     660
gcactcggct ccgcggccaa ccgtgggtgg ggactccggg cncggcgaac gcgtgggcgn     720
acgcntnctc acccanngtn naacnnntnc taaatttccc nnnaaagaaa gcagcct        777
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<210> 5759
<211> 6313
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (19)...(4020)
<223> similar to gi1665789 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5759
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caggggccctg ttcaaactcc agcactgacc attcaccggc ggaagcggcg gcgcaggagg    120
cggcggcggc ccagcggggg cacacagcag gctctgttac cagctccagc agtggcggcc    180
agcgagagct aggcccgcgc ccggccggcg gcgctcgagg cggggaggga agttgcgggg    240
ccgccgctcc tgcccccca accgggcttc ctatttaccg aaagcagagt ccctcgcctc    300
tctcggctct cacctgccgg ccctgctctc ccgcgcgagg gttccgcgcc cgcccgcggg    360
ccgtaaggag cgggagaagg cggaagcggc cccgtggcca aagcacccgc caggcttccg    420
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aaccagatat ccaagaaatt ccgaagaaac ctaaagtgga agaagaaagt actggagatc    660
cttttggatt tgatagtgat gatgagtctc taccagtttc ttcaaagaat ttagcccagg    720
ttaagtgttc ctcttattca gaatctagtg aagctgctca gttggaagag gtcacttcag    780
tacttgaagc taatagcaaa attagtcatg tggtcattga agacactgtc gtttctgata    840
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ataagctgat ggacggcacc agtcaggcct tagccaaagc aaacagtgaa tcgagtaaag   1440
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ttggacggac tagagattac actgtttttac atccatcttg cttgtcagtt tgtaatgtta   1560
ccatacagga tactatggaa cgcagcatgg atgagttcac tgcatccact cctgcagatt   1620
tgggagaagc tggtcgtctc agaaaaaagg cagatattgc aacttctaag actactacta   1680
gatttcgacc tagtaatact aaatccaaaa aggatgttaa acttgaattt tttggttttg   1740
aagatcatga gacaggaggt gatgaaggag gttctggaag ttctaattac aaaaattaagt   1800
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gagataaatc aaaggaaaat accagaaaga ttttttagtgg ccccaaacgg tcacccacaa   2100
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4298

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ttttatagat ttaatatcat aacattgcaa atttttcttg tattattgtt cacaccactg    5160
gttatacttt ttttttttcct tttttattga tggggcctga atacaggctt tctagagatc    5220
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ttaaaatgca aaatacattg atatttatta atcattggat ttagggaaag ggacagattt    5760
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<210> 5760
<211> 3206
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2300)...(924)
<223> similar to gi5419890 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5760
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tttacagtag agatctgcat ctgacccctc tatcccatac ctttgcaaag gaagggaggg   180
gtctacaagc cagaactttc agaagagaag aaaatacatg ctgtgctggt gctgtttctg   240
gagcaggtca tcctttaggt atagaacacc acctccaccc gatgacatca gaaccactga   300
ctggtagagc ccttggaaat catacagtcc acccatcccc cgccagacac atggacacac   360
cgaggctcag atggggaagg gtacataccc tagggcacac accaaatcaa aaaggtgaag   420
tcaggactag aacacctgag caactttagc aggggactgt ggccacaggc ctggatgtgc   480
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tggttgtcag ggagcagcca cttgcctcag gggctccctg accctcagtg aaaggtgact   600
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gagcttcctt agaacagtgc tggattcact gctcagctaa gatgttcctc agtctgctcc 2760

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caagggaatg aatttgctct aactatggag ggacagtctt cggaagtgga gttcttaagg   3060
accatcattc ctttctttca atgagatgcc agactgctga gaaggtgagc aatgctgcag   3120
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<210> 5761
<211> 4441
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (60)...(3466)
<223> similar to gi1502311 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5761
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gaaatgattt cctcaggact ccagattatc tacaacactg atgaggtctc ttttattcaa    780
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ctctccttgt tgaagacacg ttgggaaata ttgaccagcc acagtacaga cagatcgttg    3180
tagagttact tatggttgta tccattgtac tggaaagaaa ccccgagcta gaatttcaag    3240
acaaagtaga tctagacaga ctggtcaaag aagcatttaa tgaatttcaa aaagatcaga    3300
gtcggctaaa ggaaattgaa aaacaagatg acatgacttc cttttacaac actcctcccc    3360
tgggaaaaag aggaacatgc agctatttga caaaggcggt gatgaatctg ctgctggaag    3420
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agctctgttg agacacatgt tctgaagtgt gttgtgtttc atgttcaagc ttaatcaagg    3540
cagccattaa tatacgaact gagcatgctg gggaggtgaa tgccacatcc ttggcggggt    3600
tatggacctc ttgcatgtca tagccaatct aacggtaatg gtaaatgctt ttaatcaagc    3660
aggaaaaagt tctcatgatt atgccaacta taatagtaat cctcactgag tgataaaaat    3720
agtttatgaa ttgaaaattt gccgctgcat gttgtatgat caaatagttc atcaaaatga    3780
atctttgctc tttggactga attcttacca tactgccatt aaaataaatt tgccaactag    3840
taatgcatac tggaaatcaa aagatactga aagaatggtg aacttctctt agtggtattg    3900
tcatgctaaa agatgttaat atacatcata aaagcaaagt cagccagctg atattttggt    3960
tctcaaaaac tgcattatta ataatatttt agtatacaga gctattctac agttttaca     4020
ttgtaaacat gactgtggtt ttgtatttgc taaatatagg ggttggacta aaatataata    4080
aatctgtacc ttatcaaaca ttttctttga gctcctgcta aaaataggac atgtctatga    4140
ttgttcaaaa atatgttaaa tttaggctca gcacagtagc tcacacctga aatcttagca    4200
cttcgggagg ctgaggcagg tggatcactt gaggttagga gttcaagacc agcccagcca    4260
acatggtgaa aaccctgtct ctactaaaaa tacaaaaatt agccaggcat gatggtgcat    4320
gcctttaaac ccagctactg aggaggctga ggcatgagaa ttgcttgaac caggagacgg    4380
aggttgcagt gagctgaaat cctgccactg cacaccagcc tgggtgacag agcgagactc    4440
c                                                                    4441
```

<210> 5762
<211> 1105
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(1106)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (185)...(666)
<223> similar to gi30168 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5762
cctgggaatt cttagaaatt tctgaaataa taagttatcc ttttaaaaaa aaaaactttt   60
attttaggtt cagggataca tgtataggtt tgttataaag ataaactcgt gttattctga   120
aaagacttcc atttgcagac atcgctgctg cccagaactc cctgccaccc agccatggcc   180
aacccccact gtgttcttca acattgcaat tgatagtgag tccttgggct gcatcttcct   240
tcaagctatt tgcagacaaa gttctaaaag atggaagaaa aattttgtgc ttctgaacac   300
tggagagaaa gtattgggtg ataaaggtcc ctgcttttac agaattattc cggggtgtgt   360
gtcaggtgg tgacttcaca caccataatg gcactggtgg caagtccctc tacagcaagg   420
aatttgatga tgagaacttc atcctaagca tacagctcct ggcgtcttgt ccacggcaaa   480
tgctggaccc accacaaatg gttcccagtt tttcatctgt actgccaaga cagaggatgg   540
atgacagcat gtggtctttg gcaaggtgaa agatggcatg agtattgtgg aagccctgga   600
acgctctggg tccaggaatg gtaagaccag caagaagatc acagctgcta actgtggaca   660
actctaataa atttgattgt tttatctgaa ccaccagatc gttccttcta tagctcagga   720
aagcatgctt ccaccccatt tgctcacagc atcctataat ctttgcacag tcctttgggt   780
tccatatttt ccttatcctc ttccatgtct agctggatcg cagagttaag tttataatta   840
caaaatgaaa actaagtaac aagaagaaaa taaaagactt ccagcaattt ttatactctt   900
tagtcattac tgtggatatc taaaagaaat tggtttaata aataagaaat attacattta   960
gcaaatttat aaacaactat agcctgagat tnngggngnt caaactttag aaaataccag   1020
tgaacatttt tgggtaatat tcaaagaatg tgacattcag atctcntggn ttccncgacg   1080
gttactcagg tctctaangg gacct   1105

<210> 5763
<211> 1731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1710)...(814)
<223> similar to gi3002527 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5763
atattgatct cctggagatt cgaaatggac caagatccca tgaatcattc caagaaatgg   60
atcttaatga tgactggaaa ctctctaaag atgaggttaa agcatattta aagaaggagt   120
ttgaaaaaca tggtgcggtg gtgaatgaaa gtcatcatga tgctttggtg gaggatattt   180
ttgataaaga agatgaagac aaagatgggt ttatatctgc cagagaattt acatataaac   240

```
acgatgagtt atagagatac atctaccctt ttaatatagc actcatcttt caagagaggg    300
cagtcatctt taaagaacat tttatttta tacaatgttc tttcttgctt tgttttttat    360
ttttatatat tttttctgac tcctatttaa agaacccctt aggtttctaa gtacccattt    420
ctttctgata agttattggg aagaaaaagc taattggtct ttgaatagaa gacttctgga    480
caatttttca ctttcacaga tatgaagctt tgttttactt tctcacttat aaatttaaaa    540
tgttgcaact gggaatatac cacgacatga gaccaggtta tagcacaaat tagcacccta    600
tatttctgct tccctctatt ttctccaagt tagaggtcaa catttgaaaa gcctttttgca   660
atagcccaag gcttgctatt ttcatgttat aatgaaatag tttatgtgta actggctctg    720
agtctctgct tgaggaccag aggaaaatgg ttgttggacc tgacttgtta atggctactg    780
ctttactaag gagatgtgca atgctgaagt tagaaacaag gttaatagcc aggcatggtg    840
gctcatgcct gtaatcccag cactttggga ggctgaggcg ggcggatcac ctgaggttgg    900
gagttcgaga ccagcctgac caacacggag aaaccctatc tctactaaaa atacaaaagt    960
agccgggcgt ggtgatgcgt gcctgtaatc ccagctaccc aggaaggctg aggcggcaga   1020
atcacttgaa cccggaggcg gaggttgcgg taagccgaga tcacctccag cctggacact   1080
ctgtctcgaa aaaaagaaaa gaaacacggt taataacata taaatatgta tgcattgaga   1140
catgctacct aggacttaag ctgatgaagc ttggctccta gtgattggtg gcctattatg   1200
ataaatagac caaatcattt atgtgtgagt ttctttgtaa taaaatgtat caatatgtta   1260
tagatgaggt agaaagttat atttatattc aatatttact tcttaaggct agcggaatat   1320
ccttcctggt tctttaatgg gtagtctata gtatattata ctacaataac attgtatcat   1380
aagataaagt agtaaaccag tctacatttt cccattctg tctcatcaaa aactgaagtt    1440
agctgggtgt ggtggctcat gcctgtaatc ccagcacttt gggggccaag gagggtggat   1500
cacttgagat caggagttca agaccagcct ggccaacatg gtgaaacctt gtctctacta   1560
aaaatacaaa aattagccag gcgtggtggt gcacacctgt agtcccagct actcgggagg   1620
ctgagacagg agatttgctt gaacccggga ggcggaggtt gcagtgagcc aagattgtgc   1680
cactgcactc cagcctgggt gacagagcaa gactccatct caaaaaaaaa a           1731
```

```
              <400> 5764
actacagcag tacataaagt tttattaata ttctgattct cgtgtcatag cttttatggc     60
aggaaaggat gaggacatgc cccacctgta acgtagagca agcaaaccac caagtagaat    120
cttgagattc tctctcaact gttctctaga aacacgcttg tgcttttaat ctgcctttta    180
aaagggacac agaacaaaaa atggttgttt gcaaataaac atctgaaaga aagtaacagc    240
tgacctgggc tgaggcatcc aaacaaagca gtcattgtgg aaggagacaa tgcaaaccac    300
actggggcaa gaaacggggc agagaacgtg cggtcatttg tgcgttgggt atttctacca    360
gccccaaagg ccccatctgg aacaagtatc aaccaggagg ggctctatgg cttgatttat    420
taacctaact caaaagaagt cactgccacc aacagcactg tgcagtttta ttaaccattc    480
aagtccagta gcatctggta agattgggac agaattggga ttgaaaagtg aacagatatt    540
cagcatctaa cagttcaaaa gaagccacta catactcttt tcacaaatat gttttcacag    600
agccaataca gtactagcca ttaacccagt acaccaagtg tactgaagta gaaaagatgc    660
aacaagaaaa atagctacat tagaaagacc aacactttag aaaaagagta aaacactttc    720
```

```
agtttcttcc ccttttagcc cccctaaaaa caaacatttt tacagtcctg gatcctggga    780
tcttaccttt tacagtccta cattaggctt tcttaaaata tttgtccagg agggggaaaa    840
aataaaattg gccactgggc caggtaccag tctttgggat atttaggaag gggggatggg    900
gaagaaagtc aagttcctca gaaacaaatt agtcaggctt caggtctcgt cgcggacagg    960
gtctttggga ttccttggtt cttccggaac ttcttcaatg tgcttaaccc ttcctcctcg   1020
caaaagttcc caatttggca acccatttgt gccctctcgg gttcctcctt taattagctt   1080
ccgattttgt gggtgragtt ttctcttctg cccattttta ctgaagttgt ttgttctctt   1140
ctaattgcct ttctgcaagc acttctttct tcggtgcctc tcggtttctc agccagctgc   1200
cttcaagacc tcaagcttca tggggacttg cgtctttctt ctggcagctt cctaattctc   1260
tcggaatttc cccccgggga agaacccttc ttctttgggg ggggagaggg ggaattctgg   1320
aacaaattcc tttgcccgag gggctgagaa tcaggctcaa aagcctggcc tgaggcacgc   1380
ttctccagtt ctttcacctg gatatcagaa gaagccatgg tgaatagaag acaagcgaca   1440
gggcagtgta ttctgcacaa tcaactggga taaggaaagt cc                      1482
```

<210> 5765
<211> 5716
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (218)...(4657)
<223> similar to gi406225 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5765
```
tgcgaccgcc accccctttcc ccgctgccag cactcaccct ctctccgctc ctgctcgcaa     60
cctcgcggtt cctggggtgc ttgtgcccac tgtgtggaca gcgcgggcgg acttttgggc    120
cggggcgtgg cgtgcggggg aggctctcta aggcctccgc ctctgcctct cccgcccccct    180
tacccgcccc ggagacgaca gcgtcggagg ctccgccatg gcctcgggag ccggaggagt    240
cggaggggggc ggtggcggca agatccggac gcggcgttgc caccaggggc caattaagcc    300
ttaccagcag gggcgacaac agcatcaggg cattcttagc agggttacag aatctgttaa    360
gaatattgtg ccagggtggc tacaaagata cttcaacaag aatgaagatg tatgcagctg    420
ttcaacagac acaagcgagg ttccacgctg gccagaaaat aaagaggacc atctggtata    480
tgccgatgag gagagctcta atattactga tgggagaatc acacctgagc cagcagtcag    540
taatacagaa gaaccttcaa caactagtac tgcttcaacc ttatccagat gtgttaacaa    600
gggtttctct ttatcggagc catctgaatt tttccatgtt ggaatcccct gcattacact    660
gtcagccatc tacatcctcg gcattcccaa ttggcagttc gggattttcc cttgtaaagg    720
aaattaaaga ttctacctct cagcatgatg atgataacat ctcaactacc agtggttttt    780
cttcaagagc ttctgataaa gatataactg tttcaaagaa cacttcattg ccacctctgt    840
ggtccccaga agctgaacgt tctcactcac tctcacagca cactgccacc agctcaaaaa    900
aaccagcatt caacttgtct gcctttggaa cactttcccc ttcacttggg aattcttcaa    960
tccttaaaac cagtcagctt ggagattctc cttttatcc tggaaaaaca acatacggtg   1020
gggcagcagc tgctgtaaga cagtctaaac tacgaaatac accttatcag gcaccagtta   1080
gaagacaaat gaaagctaag caactcagtg cacaatctta cggtgtgacc agttcaacag   1140
ctcggcgaat attgcagtct ttagagaaga tgtcaagccc tttagcggat gcaaaaagaa   1200
ttccatccat tgtttcttct cctctgaatt ctcctcttga taggagtggg atagatatca   1260
cagattttca ggccaaaaga gaaaggtgg attctcaata tcctcctgtt cagagactta   1320
tgaccccaaa gccagtttcc atagcaacaa atcgaagtgt ttattttaaa ccatctctga   1380
ctccttctgg tgaattcagg aagactaatc aaagaataga taagaagtgc agtactggat   1440
```

```
atgaaaaaaa tatgacaccc ggacaaaata gagaacaacg agaaagtggc ttttcatatc 1500
caaatttcag tttgcctgca gccaatggtt tatcttctgg agtaggtggt ggaggtggca 1560
agatgagacg agaaagacac gcctttgttg cttctaaacc tctggaggag gaggaaatgg 1620
aaggtccagt attaccgaaa atctctctac cgatcaccag ttcttcactg cctacctta 1680
attttagttc ccctgagatc acaacttcct ctccatcacc catcaattcg tctcaagcat 1740
taacaaacaa ggtacaaatg acctctccga gcagcactgg cagtcccatg tttaaatttt 1800
catctccaat cgtaaaatct actgaggcaa atgtactacc tccatcatct attggattta 1860
catttagtgt gcctgttgca aaaacagcag aactttctgg ttctagtagt actttagaac 1920
caattataag tagttcagct catcatgtca ctacagtgaa cagtacaaat tgtaagaaga 1980
caccacctga agattgtgag ggtccttta gacctgcaga aatcctgaaa gaaggaagtg 2040
ttctagatat tctgaaaagc cctggtttcg catcgccgaa gatagattct gttgctgctc 2100
agcccaccgc aacaagccca gtagtttata caagaccagc aataagtagc ttttcttcta 2160
gtggaattgg gtttggggag agtttaaaag ctgggtcatc atggcagtgt gatacatgtc 2220
tactccagaa caaagttaca gacaacaaat gcatagcctg tcaagcagca aaattgtcac 2280
ccagagatac tgctaaacag actggaattg aaacaccaaa taaaagtggc aaaacaactc 2340
tttctgcatc agggacaggc tttggagaca aatttaaacc agtgataggc acttgggatt 2400
gtgatacctg tttagtgcaa aataaacctg aagcaataaa atgtgtagcc tgtgaaacac 2460
cgaaacctgg aacttgtgtg aagcgagccc ttacattgac agtggtttcg gaaagtgctg 2520
agactatgac tgcttcatct tccagctgca ctgtaaccac tggtacctta ggatttggag 2580
ataaattcaa aaggcccatt ggatcttggg agtgttcagt atgctgtgtt tctaataatg 2640
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caagtagcag cactgtacct gtctctctgc cttctggagg ctctctagga ttggaaaagt 2760
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ctaccaaatg tttggcatgt gaaagtgcaa agccaggcac aaaatctggg tttaaaggct 2880
ttgacacatc ttcctcatct tcgaactcag cagcctcctc atccttcaaa tttggtgtct 2940
catcatcctc ttctgggcct tctcagactt taacaagcac tggaaatttt aaatttggag 3000
atcaggagg attcaaaata ggtgtgtcat ctgattctgg gtatataaac cccatgagtg 3060
aaggctttta attttctaaa cacatagtag gtttttaaatt tggagtttca tctgaatcta 3120
agcctgaaga agttaaaaaa gatagtaaga atgataattt taagtttgga ctttctttg 3180
gtttaagcaa cccagtttt ttaactccat tccaatttgg ggtatctaat cttggacagg 3240
aagaaaagaa agaggaattg ctcaaatctt catgtgcagg ttttaggttt ggtacaggtg 3300
ttattaactc cacccgtgtt cctgctaaca ccatagtgac ttctgagaac aagagcagct 3360
tcaaccttgg aaccatagaa accaagagtg tttcagtggc tcctttaaaa tgtcagacat 3420
ctgaagctaa aaaagaagaa atgcctgcca ccaaaggagg attctctttt ggcaacgtgg 3480
agcctgcctc tctgccatct gcctcagtgt ttgtttgg aaggacagaa gagaaacagc 3540
aagagcctgt cacttctact tccctagttt ttggggaagg aaagctgaca atgaaggagc 3600
caaagtgttc aaccagtgtt ttcctttggg gaatttcaga ggcaaaccaa agatgagaat 3660
tcttcaaagt ccacatttag ttttagtatg acaaaaccat ctgagaagga atctgaacag 3720
ccagcaaaag ccacttttgc ctttggagct caaactaata ctacagctga tcaaggtgca 3780
gcaaagccag atcttagtta cttgaacaac agttcctcta gttcaagtac accagccact 3840
tctgctggtg gtgggcatat ttggtagttc cacctcttcc tccaatccac ctgtggctac 3900
ctttgtgttt ggacagtcca gcaatcctgg gagcagctct ggcctttggt aacactgctg 3960
aatccagcac ctctcagtct ttgctatttt ctcaagatag caaactagca accacatcca 4020
gcacaggtac agctgtcacc ccatttgtct ttggtccagg agccagcagt aataatacta 4080
ccacctctgg tttcggcttt ggagccacaa ccacatctag ctctgcagga tcctcctttg 4140
tatttggaac tggaccctca gcaccatctg ccagtccagc atttggtgct aaccagaccc 4200
caacatttgg acaaagtcaa ggtgccagcc agcccaatcc cccaggcttt ggatctatat 4260
catcttccac agcattattt cccactggtt ctcagcctgc accacctact tttgggacag 4320
tgtcaagcag tagccagccc cctgtgtttg acagcaacc tagtcagtct gcatttggct 4380
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acttcacaaa caacagtcca tcaggagtgt tcacatttgg tgcaaattct agcacacctg 4500
cagcctcagc ccagccttca ggctcggggg ctttccatt taaccagtct ccagcagcat 4560
ttacagtggg gtcaaatggg aaaaatgtgt tctcttcttc tggaacttca ttctctggtc 4620
gcaagataaa gactgctgtt agacgcagga ataaaggtc acattggtgt tgtactcaat 4680
tttaacaaca gctggtgccc tgctttcaga tactggattg tactttgtgc tggggttatc 4740
tgaagtcaga tctgcctaag gacttcttta attttggaat tttcctcctt tctctttcgt 4800
tacagaagcc ccaccctgcc tcacccaccc tttttaaat aaataaatag ctagactggt 4860
```

4306

```
gactgattct tcagcaaaaa tattttatga tccagcagat tattcactga tttgacatag   4920
tctggctgta cccaggaatg gagcctgcac ggtgaatggc tttgtataga acctctttgt   4980
ctacaccatt atgtgcgctg ataagcgttc atggaacgcg ttgaaattgt aattatatct   5040
gaggaattct gtatagatta gaattctgta tagattagag agtgttgaaa cggatgattt   5100
ctatgctgag tttgtgctgg tgtatgtgtg aagtgagtga gttgggtgta ttgtgcgcta   5160
aacttttctg atagaggaag cctgattaaa gaatggtccg tgctaaggac ttgttagatc   5220
tagttcactc tccatttaat aattatatgc tatttctata ttttcattct cctatcacct   5280
gtcttgcctt tttcattatt ttattatgaa acttgtgtaa atacaatttt gtttctgtac   5340
tttttggcat aacataaatc tgtgaacttg aaatttgaat tttgtgttag agattttttt   5400
gttgtttgtt tagtcttgtc tcagatttta ttatgtaaat cccattattc aaagttgcct   5460
aaatccattt ggaaatcttt aaaaaaaaaa ttggggattc ttaaagttga atttattggc   5520
ttttctgatc cagtttgtt tggaccaaaa accagtattg tacaaagtat taagcatata   5580
tttttatatt tactaaaatg gactgtggtg actttggata ataaggaaaa gtttaatatt   5640
aaagccatgt ttattacagt ataattaaca tgttaaacca tgggataaat gccatcaata   5700
aaaattatta tgacat                                                   5716
```

<210> 5766
<211> 2351
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (10)...(1498)
<223> similar to gi456257 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5766
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ccggggcgga tggctccggc cgcctggctc cgcagcgcgg ccgcgcgcgc cctcctgccc     60
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gtccaccacc tccatgccga gaggaggggg ccacagccct ggcatgcagc cctgcccagt    180
agcccggcac ctgcccctgc cacgcaggaa gccccccggc ctgccagcag cctcaggcct    240
ccccgctgtg gcgtgcccga cccatctgat gggctgagtg cccgcaaccg acagaagagg    300
ttcgtgcttt ctggcgggcg ctgggagaag acggacctca cctacaggat ccttcggttc    360
ccatggcagt tggtgcagga gcaggtgcgg cagacgatgg cagaggccct aaaggtatgg    420
agcgatgtga cgccactcac ctttactgag gtgcacgagg gccgtgctga catcatgatc    480
gacttcgcca ggtactggca tggggacgac ctgccgtttg atgggcctgg gggcatcctg    540
gcccatgcct tcttccccaa gactcaccga gaaggggatg tccacttcga ctatgatgag    600
acctggacta tcggggatga ccagggcaca gacctgctgc aggtggcagc ccatgaattt    660
ggccacgtgc tggggctgca gcacacaaca gcagccaagg ccctgatgtc cgccttctac    720
acctttcgct acccactgag tctcagccca gatgactgca ggggcgttca acacctatat    780
ggccagccct ggcccactgt cacctccagg accccagccc tgggcccca ggctgggata     840
gacaccaatg agattgcacc gctggagcca gacgccccgc cagatgcctg tgaggcctcc    900
tttgacgcgg tctccaccat ccgaggcgag ctcttttct tcaaagcggg ctttgtgtgg     960
cgcctccgtg ggggccagct gcagcccggc tacccagcat tggcctctcg ccactggcag   1020
ggactgccca gccctgtgga cgctgccttc gaggatgccc agggccacat ttggttcttc   1080
caaggtgctc agtactgggt gtacgacggt gaaaagccag tcctgggggcc ccgcaccccc   1140
tcaccgagct gggcctgggt gaggtttccc ggtccatggt tgcctttggt cttggggttc   1200
ccgagaaaga aacaagattc taacttcttc ccgaggcagg gtactactgg cgtttccacc   1260
ccagcacccg gcgtgtagac agtcctccgc tcccgcaggg ccactggact gggagagggg   1320
```

                                  4307
```

```
tgccctcttg agattcgacg gttgccttcc caggatgctg atggctatgc ctacttcctg    1380
cgcggccgcc tctacttgga agtttgaccc tgtgaaggtg aaggctctgg aaggcttccc    1440
ccgtctcgtg ggtcctgact tctttggctg tgccgagcct gccaacactt tcctctgacc    1500
atggcttgga tgccctcagg ggtgctgacc cctgccaggc cacgaatatc aggctagaga    1560
cccatggcca tctttgtggc tgtgggcacc aggcatggga ctgagcccat gtctcctcag    1620
ggggatgggg tggggtacaa ccaccatgac aactgccggg agggccacgc aggtcgttgg    1680
ttcaccttgc cagcgacttg tctcagactt gggcaaggga ggcttttggc atgacttaag    1740
agggaagggc aatctttttgg gcccgcttat gcaggtcctt gggcaaaacc tgggcttgcc    1800
ctgtcttcca ttccctgttc ccttaagggt aaggcaccca ttgggcagga actgggggaa    1860
acttggagtg tcctttgctg ttatcccttg tttttgaggt tcccttccca gggggctggc    1920
aactgaaagc aaagggtgct ggggggccccc aatggccttt cagcccctgg cctgagcaaa    1980
ctggggcttg taagggcaag ggccaacttc cctgaaggtc aaggtccttg ggtaaggtgc    2040
cctgcactct gtcctgcctt tctgggctga acaatccctg gaaaatctgt tctcccagaa    2100
tccccaggcc aaaaagttca cagtccaaat ggtgaagggg tattcttcat gccaggagac    2160
ccccaggccc ctggaagctt gcaacatacc tcaaatcctg tcccaggtcc ggatcctcct    2220
gaaagccttt ttcgcagcac tggctatctt ccaaagccat ttgtaaatgt gtgtacagtg    2280
tgtataaacc ttcttcttct tttttttttt ttaaactgag ggattgtcaa ttaaacacca    2340
gttgttttct a                                                          2351
```


<210> 5767
<211> 2238
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2205)...(506)
<223> similar to gi5912186 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5767
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tttttttttt ttgatgattt ggatattatt attacaaaga atttaaatat acaagtttgg      60
ctatgaaaga cccagctaag ccacttaggc aaaagtctat ctttgatgtc atagtttcca     120
agaagtatca taagagtcaa acagttaaac atttctctgt gcttttttttt tctattttct     180
aggaaatgtt gggtttagag agaagctcat caacttactt atacaaatca ggatatactg     240
agggggggg aggataaact cgacatttcc atattttata atataatgtg gaaagattca     300
gaaatgactg agaagataca gtgatatgat atttaaagca aatattggca tatgcttata     360
caagaaaggc atcttacaat aatatttctg ttggtacatt acaatttttc agctagtaat     420
tctaaaatgc cagaggtcct atgatgcaat atcaaaaaaa ccagggaact gacatacaaa     480
gtcaaatata aagatagtaa cattcagtca tccacagata aaaggctatc tggacataag     540
cctgaaacaa gcaagacgcc atccactgcg atttcgccgg ttttgccctt gccacgttct     600
gcttcaaaaa tgatgctttt ggtagcatca gttccttgat acaactgaat tttccctgtc     660
ttccactttt catcctcact cgtggtcttc tcccatgcca gggcattgtt actgttttc     720
acaaacactc gaagtttccc gactttgtct ccggccagcc ggtaatcaaa gagcaaacag     780
aagttgcttt ggggttgcag gtcaggtagg agaagtttca atcggccaat gtctttcctt     840
gtgaccctgc caaaggccgg gaactgccaa tatagaagcc aaatagcatt atctccgatc     900
agcaggattc ccagtcaaaa tcatcttcgt ctatcctgtt tcccagtcac agatccccat     960
gattgaagct gcagtcaacc gagatattta aatctgcttt atgttccagt ttggaagtta    1020
gcgctttcct ttggaccgag aatcaggccg aattcacctg cttcattcac cttagggaaa    1080
aacacatctc cctcgaaaag gtcgctccct cctatgtcaa tccttcaggg ctttctcttc    1140
```

```
tcttttctca tcctcaagcc cctctttcat tttctcttca ttcccttttt taccctccat     1200
gagagttccc gcctctggaa actatctctt catagttgaa gggctgcaag ttcaccttag     1260
gggtaggagt cctggtgggt tctggggtaa cattttttaat ttttgccttc tttttcatgc    1320
tgtttttgtg agcaagcaac ttcttgattc tgtctttgat ggtaccaggt gctctgagga     1380
cttccttcac agaattttca gggatagcag aacaccgaag tccattgcct ttatatccct     1440
gcttgcattt acacttgaag gacccttggg tattgaagca attggcatgg tggctgcacg     1500
tatggctatc catagtacat tcatttatat ctatacagtc atatcgtcca ctgatatatt     1560
gcagttcgaa accaatgtga catttgcagt agtagcttcc aaatgtgttc acacatcttc     1620
gattgtaggg acagatgact ttaccagagg cacattcatc aatatctaga cagtctcttc     1680
catttggggc caggcggagt cctgaggatg gacacaggca ctgtggccct tcttctgtgt     1740
cttcacagct gtactgacag tttatcatgg cacatgtcct agagttcaca cacgtagcat     1800
ctggcatgag catgtggcca ctgaggcaaa agcacttgta gcttccgtgt gtattcacac     1860
atctgtgttg gcatggccgg ggtttcattc cacactcatt cacatcttga ctgcaggttt     1920
tcccggtgta tcctggaaag catctgcatt tgtttggtcc cacgcactca ccaaacttac     1980
atccaggttc gcatgtagct tcacagactc ccttgctgtt tcttctccag ccgtagcagc     2040
aggccagttt agttccatag tgacagaccc caggctgacg tgccgatgct aacaacccgt     2100
gatgccttgc actggccgcg ttcccgaaac cacctgccac ccaggagagc agcagcggga     2160
gcgcaaggct ccagggcaga ggcattctcg cacgggtcct ccttcctcct cctgagcccc     2220
cctcgggagg gcgccggc                                                   2238
```

<210> 5768
<211> 2123
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2023)...(1259)
<223> similar to gi930259 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5768
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tggctcagga gagcatttat aaacttctcc tccaaccaca atatttactt gaggatccag       60
tccagcccca tcaattccta gggttacatg ctcccttttt ttccagcgag gatgaagggg      120
gttggttatt actagttcta aggggttaca ctgaccactg gtacaggaag ggccactttt      180
ccttttctga aggtggacag gatcctttttc attttttgtc caagtagcct aagtgacaca     240
agaccagtat ccacgttcat ttccacacag ccctaattca tcacaaatgt acttattttc      300
tgccatatag cctctttcct aattaagaga accacatcct attcctaact tattactatt      360
aatgacagca caggcatcaa attttaaggt gacttgtttg ggcacccctt tttcttctgt      420
tttggctaac actttactca tatcatttat gagcccccac cagtcctcag tccttaatct      480
tattttaaaa accgtggtca tgggaggctc agatgggtca taacacacat caggttggtc      540
acttcctggg ctacatacct tgtacagaat aacattatac aaacaagtta tttttagagt      600
tccagtacac ttataataac cataaaataa taggactgta gcaacctttt gtcctacctc      660
agtgacttga tgtatacact ggaacagtcc tcagtctgag gaaggtcagt tgaagtcctt      720
actgtaaaag tccaaatttt aaggaaaatg agttccgcaa tgagtttttct catgcttcgg     780
ccgtgcgtgg accagtcagc ttctgggtgt gactggagca gagcttgtcg tcttcttcag      840
agtcactttg caggggttgg cgaagctact cccgtccacg taccctcac agtctactga       900
tgtttaagga tagtctcgga ggttgggcct gctagaataa actgagtcca acacctctac      960
acagtatgtt caactaggct ctctgatacc aggagcaagg tggtgggggtt tagggtgttg     1020
caaacttcag tggttatgtg gggattttttca catagcaagc tttggtactt ggttaatcta   1080
```

4309

```
gcatttgtaa ccaatgaggt cctttggtag tcattaaagt taccacagca tggggggcct    1140
ttatattcag gttttcctaa gggttagttt atctgcttct tgtgctaaca gggctgttgc    1200
tgctagggcc cttagacctg ggggccagcc tttggaaatc ctgtctagtt gttttgagag    1260
ataggccact ggccttggcc agggcctcac agtatgggtt aaaactccaa ctgccatttt    1320
ttctctttct gacacataga gtgtaaagag ttttgtcagg tcaggtagcc tcagggctgg    1380
gaccaacatg aggttttctt ttaactcatg aaaacctcgt tgttgttggt tgtaatagat    1440
gtagtttatc taatctacat ttttattaac tgtcacccac taaaatattg acttaaatcc    1500
tgcagctatt tgatttcaag ctttaaattg atctggtatt cttcgtggga ctccaattgc    1560
atctaaatag acatgagagt cgaaagaccc ataaggggct tctctcgctt tacaatgtct    1620
ttcttttttt ccttctggtt gatgaaatgc cagggtgaaa gggatagcca attggactaa    1680
agtacaagtg ccactccagt tattcggcag agtgcccagt aaaggtccac cacaatacca    1740
ccacacatct gctcggggat gaacaagggc tgactgattg ataagctctt gaaaattctt    1800
aagctaactg catcctttca ggtctccaag gaatgctaag tttcctccct gttgtgagag    1860
acacgaagtg aacttagtgt tgggagacag aggctggatg gcccttgggg gctgatccac    1920
agggtgctag actttgggat gtagcagaga gagcttggca tgacttatta ctccaggctg    1980
tagaatccca gagaagggct accatgcagc ctacgcctgg ttgactggag aaccacgtta    2040
gtggaaaggg gacaatctgg gcctctggcc tgccatgtgt acacacataa caattgcttt    2100
tgtttaatgt gcagatggaa tat                                            2123



        <210> 5769
        <211> 798
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (141)...(722)
        <223> similar to gi3150438 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 5769
ccagtgaaga aacgccagag tgtggaaagt ggaggacgac tgatgaagga tgcctgagta      60
cgtttttact tcaggctcta tgggagagaa tcagcttcct gtctgggtac ccacaagaca     120
tcttaagctg tgccatgagc cagaatccaa ggaagaggaa aagacctcgg aatgtccctg     180
cacccctggt tcatcagatg gctcagatga acatctctgt tgagcagatg gaaaccagta     240
aaacttgcca agcaactcca ccgacctgtg ggcagatgaa gagactagct cacattgcag     300
acgagaacct gaggtctcag aacaagctgc tgaccaccag taatctaatg atagctatga     360
tggcagtaat ctccttggcg gtgagtctcc ccgtagctgg ggcagatcaa aattacattt     420
attgggccta cattccattc ccccactgat taggtctgtt acatggttag accccctggt     480
ggaggtttat attaatgata gtgtctggat gcctggacca acagataact gaggtcctac     540
tcatccagag gaggaaggaa tgttaatgaa tgtttccatt ggttatcgct ttcctcccat     600
ctgcctgggg ccagcagcag gatttttaaa ttatgataaa caaatttgga tggtttatgt     660
ccctgcacat aatggatcaa aagcctctat tcatgcaatc agtggaagaa catttcaatc     720
tttggacact attaaatacc ttgagcatgg ctatgttatg acacatcgcc agattaataa     780
atttaaacct aataagaa                                                   798
```

                                    ·

<210> 5770
<211> 1624
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (528)...(1488)
<223> similar to gi1685379 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5770
taaaagacag tgatctcacg cggaggggaa gatgtttgcc atcaaaatgt gacagaagag   60
acacgctgca tggctcggaa cgcatctcct tggtggtggg ggaaagagac ttagaggaga   120
gaggctgcgc cctggcccag cctggctcgg ctcagctccg cgcgccatgg caagctcggc   180
ttccctggag accatggtgc ccccggcctg cccgcgcgcc ggagcgtcgc cggccacttc   240
caagacactg gccttttcca tcgagcgcat catggccaag acgtcggagc cccgtgcgcc   300
ctttgagccc cggcctggag cgctagaggc ggacggcagc cagggcaaga aactgctcaa   360
cctctgctcg ccgctgccct gtatgatccc cctccagccc ctaggctacg aggtgccgtc   420
aaagacactg ctcagttact cggagctctg gaaaagcagc ctccgggcgg gcggcggcgg   480
aggcggcggc ggcggtggcg gcggcggcgg cggggggggcc ccagtgtgcg cgccagcgg   540
cttgtgcaaa accaactgtg gcgtgtgctg caaggccgag ctgggcctgg cgccgtccgc   600
gctgcccgcg ggcagggtca tcaagccgca ggtcatcaac caggctgtgg ggctgccggc   660
cagcggctcg ctctactact tcaactacct ggactcgacc gcgtacccgc cgtctgagct   720
cctcagcggc cacctcttcc cgtctggcct cctcaatgcg caggcccccg ccgccctggc   780
tgctcacccc aagctctttc tgctggagaa cgccaagctg gccggcctgg ctgcggacaa   840
gttcccccac ccggctccct atccccataa ggagcgcttg ccggcgccgc tggagcaggt   900
actgaaggaa aactcggccc tgactgccga gcgcggaggc gtcaagggcc acagcaagct   960
gccaggaggc tccgcagatg gcaagcccaa aaacttcacc tgcgaggtgt gcggcaaggt   1020
gtttaacgct cactataatc tcacccgcca catgccggtc cacaccggag ccagaccgtt   1080
cgtgtgcaaa gtctgcggca aaggctttcg ccaggccagc acgctctgca ggcacaaaat   1140
tatccacacc caggaaaagc cacataaatg caaccagtgc ggcaaagcgt tcaaccgcag   1200
ctccacgctc aacacgcata tccgcatcca cgcgggctac aagcccttcg tctgcgaatt   1260
ttgcggcaaa ggctttcacc aaaaagggaa ctacaagaac cacaagctga cccacagcgg   1320
cgagaagcag tacaaatgta ccatctgcaa caaggccttc caccaggtct acaacctaac   1380
cttccatatg cacacccaca acgacaagaa gcctttcacg tgcgccactt gcggcaaagg   1440
gttttgcaga aactttgact aaagaaaca tgtgcgcaaa ctccacgaca gcgtgggccc   1500
tgctgccccc tccgcaaagg acctgactag gacagtgcag agctgaagag ctactgcctt   1560
gcccttcctt ccctccctgt accacctgaa aacagatcac acatataaac ttatttctaa   1620
aatt   1624

<210> 5771
<211> 2641
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2517)...(411)
<223> similar to gi29472 in the genepept database release 114,

Run with FASTXY 3.3t00, default parameters

<400> 5771
tttttttttt ttaagagaga ggcaatttta ttcttccaaa aaaatgcacc aagagagggt   60
gagcacagga gcacccctgg ccacatcccc catcctaagc agggtctgag atgaggccag   120
gcctgacgtg ggcttgggag aagctgacgg agctccctgt ggccttgggg agggaaccag   180
gcagacctgg aagtggaact ttgttgttag caccaggagc cgcccacagc tgggctcggc   240
aacagggcag cacatggccc tgttgcctcc acctgagagt ctggggaggg gctggtggca   300
gaaggctccc tgcaggaggt cacctgaatg actctcagat tcacagaccc cctctgcccc   360
cacaacccct gtaaacatga gaatgggctc gtgacaccct caacacctca ggacaagatg   420
agggtccgag atgtgtggct gggcttcagg cggcccagga gctgccgggc tttctcctgc   480
atgaaaagct ggtccctggt ccccccgcag gccaccgtct tccaggcact ggacataggg   540
gcaggtgtcg tgaagtggct tcggggcttc tgggccactg ctgccttctc gggcttggcc   600
tgcaagaagc cctggttgag caagctgttg tcttctttga tacctgacag ggtgaggctg   660
gaagagtttg aaggggcagt tgtcggcaag gatagagact tgggcagtgt ggacatcatc   720
agcttcatat cctcatccac aatgtcaaga gccagagact tccggacttt cttgatgggg   780
ctccgccgca gcccaggctt cctcttctgc ttctcgggcc tgatgtcgtc ctcgatgatg   840
agttcgatgc cagcctcaga acgcagcacc tccttcaagt cctcctccag gtgcggggtc   900
tgtggcaggg gcttcagggg tccgtacttc tccagggcgt tcttgaacgg ggttggcgtg   960
tggggagtgt tgtccatgga gtacttctga tctggggtta caaacgcagc atgtttctgg   1020
tgcaggggtg tcttgtcccg gtgcagtggt gtggtgacca ccaccttctg gctgcacact   1080
ggggtggatg tcagcgaggg gctctccagc tccaatgtgt cctgtttgtt ccagaagttc   1140
agaaactggg agggcgagaa gggcagggtc ttaacaggtg tgctcttggg cgtgaggctg   1200
ttacaggaat ccaggaagga cagactggtg ctattctcag tgacagggga cagagccaca   1260
cgcctcttcc tctgccgctt gagcacagag ggcggtgtgc caatgccaga gcccccgact   1320
tcagtgctgg gggagatggg gatcagctcg ccccggctgc tccggctcag gtctgagatg   1380
gtgtggccat ccaggcggta ctcggtcaca ctgggcacca cgggcggaag gctggcgggg   1440
tggcaggact tgctgctgat gtgacgcttg cagctgcact aggctgttgt tgatactgtc   1500
ctctgcagat ggttcctcag ggaggtcaaa tttactcagg tcacaccaag catcagggtc   1560
cgactcgatc aagtccaggg cttcagagag gctagaaccc acagcgggga tgaggaggtt   1620
agctgcctcc accacccact tgtaaggcag gctcgtttct ggtggggagc cttcctggtc   1680
ctcacgcttc gggaattcct ccaagggctc tggtgttcgc actgcgtcca gatctgtacc   1740
gatgggctcc tgttccttcg atgtggtggc tgctgcaagt tcctcctcac tgttttcctc   1800
ctcctttatg gtaggaggga cggagggcca gttggtcaga agacttccct ggccttccgt   1860
gggctgggca ctctggaggc cgtccttgtc ctcgagctcc agcagcaagt acactggggg   1920
cttgcagtct ttggactcgc tcaagaagcc tcctgtgtcc accttccttt tgatggtaga   1980
gttccagtga ttcttcacag cattgtctgt cctccctggc aacatcttgg cgatctcggc   2040
ccagcggttg cccagcacct tgtgggcctc gcagatgatg cggtcctcct cctcggtcca   2100
gcaagacttc ttcacctcag ggttgaggtg gttgtgccag cgttcacggc actgcttccc   2160
cagccggccc ttcaggtgct tggcaatcag tgtccactgc tttgtgccat acttcttaac   2220
cagctcgatg actttttggt cttcctcttt ggtccatggc cccttgacaa ggtctggatt   2280
caaaactctc agccacctgt actggcattg ctggtcagtg cggttaggga agtggctggc   2340
caggaacttc cagtcctgct gtccaaactg cctcaccagg gccctcagct gctcgtcctc   2400
ctcatgggtc catttgacct tgcacttgct atccctctgc tccggcacat ctgaatctgt   2460
gtcctggtag tgcagctcat ccatgattca ctcagcgcgc gtccgccgag acaatccccc   2520
ggcccggacc gcgccgcgct cgcccgcccg ccggcagagc cggagcgggg agccgggccg   2580
gggtcaggac ccgggctgct ccggccgctc cgggccccgg gccgcgctcg aaggcgtcag   2640
c   2641

<210> 5772

<211> 1523
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1524)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1484)...(417)
<223> similar to gi3875351 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5772
ctttctaaa caaattttca cattgtaaac aaagcgtcct attttgtatt tgagttttgc   60
ctttttcttc ctagggaact ataagagagt ttctgtgacc attaagagga ctccattttc   120
accgctgaaa tagaattatt gcccttatag tcttgctggc aaattgttag aaaaaaagtt   180
tatttacagt attttgcttt tccataccaa ttctagtgag aagttcacat tcttaaattc   240
ccagtcagca actgcatttc tcccctccaa tgtcctctcc atgacttatc tctgaagttt   300
cgagccaatg tttaaaatgt acactattta caaatgaagt gtccaaatgc catattccca   360
gctctccagt cagcagggggg acccttctga agtgttgtca tgtgctggga ttcagaactt   420
gaacaagttg ataaagtcct ggggtgaaag tgaaacggag cagctctctg ggttattggc   480
agtgcacgga tggtcagtgc ccttccagga aaggatgtga cagtgtttgc agagctgaag   540
ggtatctcca tactgctctt tccttgggta acatcggaca agtttgaaat acatcttctt   600
ccaatccagc tgccctttgt ctgacagaat taatcgtttg cggatctgcc gctcggagaa   660
gtggtactgg cagagtttct tccacagcag ccggtcttcg ctgagcacgt gcaggtcggg   720
ggcagcctgg cccaggctga ccaggtcccg cccgtcgctc agcctctgca tgatgttcag   780
ttgtaggcac aaaggcaggt cagtgaaggt gaggcctttg aaggcaggcc tggtgatctg   840
aatgttgttc agctgctgct gccagtggag aatcgtctcc atccgataca cccacatgtt   900
aatgttcccg accagcacag acttgccgac tctttggacc agtgtacata aggatgtgta   960
gagggtctgg agtagttccc ttattagtct aatgttttgc tggtcttcaa ggactttcag   1020
taccactttt tccaaaatat tcatgaagtt ctttttgggcg atgccactca gggatgtgag   1080
ctgtgacttt gctatcagct ccaacagccg gaccacgtag ttaaatcttc tggaatccag   1140
aatggcagtt gagaagtcca gtctgttgaa agcttccccc agggtgcaat atccatggcg   1200
ctctttagta cttcctttgt gaacatagat ccatttttct tggtggaaat actgagtttt   1260
ggttttgcta ttcagcatgt ccttctttct cttcttggct gcaacatcat agttcaggct   1320
gttgaaaaga ttctccttat tgtatacctc cttgttgcag taactgctga ggtcgctcac   1380
gaaactgccg ctcttctcat ccaggaagcg cttccagccg tcgaccgtct tcacccagtt   1440
ctgccccggg gaccgccagt cctgcccgag gaatggcatg gccccgcgag cgaattcaag   1500
cncnccaact aatggtctcg aat   1523

<210> 5773
<211> 6582
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<center>4313</center>

```
<222> (1)...(6583)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (527)...(3388)
<223> similar to gi2224671 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




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4318

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gccagtcatg tgttaagttg cgcttctttg ctgtgatgtg ggtgggggag gaagagtaaa    8580
```

4319

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cacagtgctg gctcggctgc cctgagggtg ctcaatcaag cacaggtttc aagtctgggt    8640
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gagttaatat atttgtttta tttatttgct ttttgcgttg ggatgggttc gtgtccagtc    8880
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acagtttggt tgttgctgta aatatggtag cgttttgttg ttgttgtttt ttcatgcccc    9360
atactactga ataaactagt tctgtgcggg taaaaaaaaa a                        9401


        <210> 5776
        <211> 2746
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2598)...(606)
        <223> similar to gi5579331 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters


        <400> 5776
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        gaggatccct gagtccagct tgtaaacacc agagccagcc ctggagcctc aggcctctgg    180
        agtcacggca gcccctccag acccttggat tggggacatc tgaggcttca cgagcccggg    240
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        cccctctggt cggcccacag agacctgctc aggcttcagc aatcgtgagt catgattcgt    360
        gtcttctgga ggaagcaggc ggaggctcca gcggcccagc ccaccccgca tcacaccaag    420
        actgacggcc tcacttgtcc tcacggtgtc ctgattaaag cagagacgag gaggagccca    480
        gagccagttc agagcctggg ccacttggcg gttgccggtg ctacgtgggc ccttggaaaa    540
        tgccacagac ccagcaaggt gcctctgccc acccgaagtc cccacaccag cagccatcca    600
        ccctaggcag gggtccagat aggcagaggg tgggcttcgg tgttgaacac gtaggcgtcc    660
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        tgccgcagca ggtgcgttct gacaccctcg atggcttcca cgtagtcttc cagcagctgt    1260
        gtctcctgct cccgcccctg gatccactgc ttcagcaggt actcatagta gctgtcggcc    1320
        ctggcgccca gcgtgaatac gcccaggtgg gtgaagaggc cactgtgggt attgatgaac    1380


                                    4320
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cgtcaggaag tccgactgag aggaaccgag agctccgctt ctcctgccct cgcaggcagc    2700
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        <210> 5777
        <211> 2841
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(2842)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (2044)...(367)
        <223> similar to gi3142288 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 5777
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agcacagggc tcgtgtgggt gaacagtctg cagtcaaagc cgatgctggg tgtccctgta    180
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gtctgaaaag tgggctgttc tccttgcctt tgttgtttct tctttttcctg gccgtctggg    300
ttttttctcc acaatggggt ggggtgggtt tgtgtccccg attcacttgc tagtccccag    360
aaagggtgtc ccagcccgag actcctttcc gggaaggagg ctccttccgt gctgggtact    420
gggtggttgt gatcggaacg tgttcgatcc cctcttctca tcactgctgc tccaactgga    480
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4321

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<210> 5778
<211> 2522
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1720)...(604)
<223> similar to gi330123 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5778

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ccacgtgggc tgggcggctg gagggatggt cccccggtga cactgggaga aaggccactt     660
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tggaagggtc aggggagacc aggtcagggc agctacattt ctggtgatca gccccatggg    1440
gagacggggc tggcgggata ccgccccccc ggcttcccca caccacttct gtctcacccg    1500
gaagcgtcct ttttttgtcc caggtgtcta cctaagaggg ttggtgccag aagccccca    1560
tggcgagtgc tggggcccgg cggtgccctg ggggagcaga tggggccacc cctggcaggg    1620
ccgctacaac tttttccagc agcggagccc tctggggggc ctgtgcttgt ggcatctctg    1680
agggcccaga ttgcacaagg tgacctggcc gtggcctgag ggtggagtcg cccagcacgc    1740
aggccggggc gctgcggggc taagtattag gccttcccag ggaggggggcg tgccaagcat    1800
cccagagccg ggctgggacc gccaaaacgt cgtggcctgg atcctctggg tctgagtgcc    1860
tgatcccctg cccccaaaaa aagcagaggt aggtgttgca ggcccagggc aggggtgcct    1920
gccccaggag agtcccaggc agtggttctc gtgccagtgg cacccagggg caaggacagc    1980
caaccccac ccttgccacg tgtggggcca cgtgggcatg tgggtgtgt gtttttacct    2040
tggtgaatct cacctgccaa cgatttctcg tgagtgccga ccaccttctc cgaccatgtt    2100
acgcccgggc ggcagcagcc cccggccact gcaaacccat gccctgggtc ccccggctcc    2160
cccagggagg catccccgtg ccaatgtccc ccagtggtgg cagcagatcc tgtggccggc    2220
ctggcggacg ggacccagtg atacttgtat attacacagt cctgatttca gacaatttca    2280
accttaatct atttaaaaaa gaatattcta tacaagctgt ttttaagcct tttaccattt    2340
gaaatgcatg tgttgtgcgc gttggggatg ggaggagggg ctgaggagcg gctcagtgtc    2400
acctcccaca gccaccggcc ctgacccta atccagacac cgatggaagt cgacttttca    2460
tatctttctc ctgaaatgaa ctctgtttta aattggaata aattttgttc ctaaaaaaaa    2520
aa                                                                    2522
```

<210> 5779
<211> 3152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (2804)...(208)
<223> similar to gi433338 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5779
```
ttttttttagt tctttaatgt aaaaaaaaaa aagtatatat gagtcagggg tagggagtgg     60
gggtgaccag gaaaagaggg caaagcaaac aagcctctgt ctctcagttt cattaaatgt    120
ccagatggag tggcataggc atgggtgagt ggtaggtctt gtagggagga cctgagccgt    180
aggaacatgg ccaggcactg acagcatcac tcgtcgcctt gttgaaggag cagaaggtgg    240
atttcttgga atgagggacg gttcttcgta tctcttctcc agcagctgag catcagcttt    300
attacacagg agtcagggac aaatgggctg gttgagggga ggtaagtctg ccctcccttg    360
ggtcttcgga agaactctcc agtatttctt caataacctg tttcatctgg acagctgggg    420
aatagggggcc ttttctttga caaaaggtga aagttttccc acaaagtaac ccccaaaggc    480
ccacacatca cttgctgtag tgaacttgcc cagcaagata ctctcccaag acatccagcg    540
gatagggagc actgcccggc cctggatccg gtaatagtca ccactgtaca ggttcctgct    600
cattccaaag tcagctatct tgattgtgta gttcttaccc actaaacagt ttcgtgtggc    660
cagatctcgg tgaacaaaat taagagagga aaggtacttc atgccagagg caatttgggt    720
agccataaac ttcagattgg tgtaactgac agtgcgtaca tcgctggagg aagaattagg    780
gggctcgtgg cgggaaagaa actgattgag atctccattc tccatgtatt cagtgatcat    840
acagagaggg tcatcagtga tacacacaga taatagatgg atgatgtttg ggtccttgag    900
ccgagacatg atctttatct ccttaagaaa atcattcctg gcattcttgt tggcatctgc    960
tcggagcatt ttcacagcca ccaggacagg ctggttggca ctgacatcta gggcaaaatc   1020
tttgtctttg aatttttcca ttccctccac ttcacagaga tgaacctccc caaactgtcc   1080
ttctcccagc ttctctttga aagttaggag tttccctggg ggaaactccc tcccacagcc   1140
acatcttttc cctgagagca ggtccatggt gacggcaggc actgagtatg tgttgcctcc   1200
tgtcactcct tggaggttca ctatgtcagc ctctgcatag tggggcaccc cctcagggcc   1260
actgggctgg actggcttca caacaccgct gcagcctgac tcctcctccc ctggagcaaa   1320
ttctgggagt tttcgtatca gcctggatgg ctcctggtag tcagggcgaa ggggaaagat   1380
gcgatcgtaa gtcgagttgg acccttgttc actaggtgat gaggagcggt tattgttgaa   1440
catgctagaa tcacttggca gggaaaggct gactgtcatt tcatcatcca gcatcctccg   1500
agaagccttc tccagcattt tctgccagaa ctgcctccag aggatgatga caatgattgg   1560
caggaggatg aagatgatgg ccaccaagca gccaatcagg atgcgagtgt tgctgtcatc   1620
aactttaagc attggatcat aggttgtggg tgccatagga gaggtgggca gggcttcaga   1680
gttgttgtac attgcagcat ctgattggaa ggtgatctca ctgaacatca tccaggtatc   1740
tgcaaaatgg tattgacact tgatggcact ggccattcgg tggtggagag gcaccgtgac   1800
aaaccgagca ctggggttga cgtcatccag gacaaggggg aaggaaatgg cattaggttc   1860
ccactcactg gcttcagagc ggaagtagca ctgtacctcc ttaaagatct tcacacctt   1920
agcaaacatg ttgttgcagt ggaccttcat ggtagtgaaa ttcctgatgc ggtcaaattc   1980
aaacatgatc tcaatgtagc cattggtggc actctcgttc cgccagccca catagtcata   2040
gccgggccac acgtggtatt catgggtctg ggtgaaatcg tccaggccag acacaccatc   2100
ggtcaattgg cctagccctt ctgtcatgct gtatccaaca gctccatcat agacagaatc   2160
attcagataa atgatggaac ctccagggag tacaaactgc tgcccagctg gagcattgta   2220
agacaccaag ccatctagcc agacacagcc gtaaagctcc actctcatac acacattcat   2280
ggagtggtcg gtgactggaa tgaaccggac aaatctggct acaatgggcg gctccaagtc   2340
ctttaggaaa atgtcatagg ggttactatt tccatccagc acctgtttcc catgacggtt   2400
ccgccaagag atccagcgag tgccatcccg actgtaattg atcttgtaca tgggggcaaa   2460
ctcgatgcca tgacctcctg catggcgccc ctgggtcccc accagagtga taaaatggag   2520
ggtgtgcaag tcaatctgca gaaactcctt caggtcatca ggttccactg gaatctcagg   2580
gcaccaggct ccatcccctt cttctgagtc cagccttcca tatttggcag ctgtggactc   2640
tgaccactga ctggaagctg tgatgtcctc atctggaatc tggcctcctg acatgcccag   2700
aggatagcgg catatagctg gattaacctg agcttttgca gaactcaaga taggcagcag   2760
caggaacagc accaagagca ttctgggaat caggatcatc tcagaagatg gtgttggaac   2820
tggagtatca acgggtgcag agcattctct gtggagcagg atcctcaaaa acagctggcc   2880
tctgcttctc ttcaattatt tcagcttctt tagaataatt caagccacaa accttggaac   2940
```

4324

```
tttctagagc actgaacccc aggcaacttg taggtctccc ttgatggagg tttcatccag    3000
gggtgcacag ttttggaaag aagaaaacag agctataatc cactgcgttt ccccaaccca    3060
aaaagaagaa tttgttgtga aacgcttctt tttccacttt gctggtgaag gagcccggtg    3120
gtaggcatac atccacaggc tgatgcaaga tg                                  3152
```

<210> 5780
<211> 878
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (752)...(713)
<223> similar to gi5732934 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5780
```
tttttttttt ttatgagttg gaatcaactt tattgatacc tgagaaaaag ggcaggaaaa     60
atattcctcc tgaccaggtg gcctgtcccc tgaggccaga tcattctctc gcctctccct    120
taagccctgg gtcatttggg acctcactgg ccagcaccca gaggctgaag acatccacag    180
ccagagcctg ggaagccaga cccagagacc aggagaggga atgtctacag cgtggctcct    240
gaggtcaggg ccaaggtcag cgtgggaccc tcatcggtca agggccagcg cctcttggat    300
cactgtccgg agtccgatgg aaaacagctc ctcccatggt tcccggatcc aggcaagcag    360
ggctgtcagc tgctcctgac acaccacacg gagtgcccaa aagctctcca gccgggacac    420
ctcatcgtag aagagcagcc gcaagtcctc aggggctgag cggtagagca gcacggagct    480
caggctgctg agtggctgct gctccctgac acgcacagca gggcccggcc ccgagggagg    540
caccttctca gaggcttcgc cagatgctgc tggaggagag ggctctgccg gggaccctgc    600
agcatcctca tctaacagga acagggtgga cggagtcagc aacagggata cgaggcaggt    660
ggaagggcct gcagggaaag aggcatccag tgtggaaggt catggagggg cccagatccc    720
tggggccagc gtcccagtgc tgctggggag aagaggtgtg aaccacactc tgaggtgggt    780
cacaaagcag cctgtgcccc tggggccaag accctccctt tcccaagctc catgaatctc    840
tactctggaa tacctctgcc tcctgggaat tccaccgc                           878
```

<210> 5781
<211> 892
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(893)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (433)...(688)

<400> 5781

```
aaccttatta ttactgaagt cgccttgtta cacacaaaca tctacagtgc ctcctggcca    60
ctccttctgg acttttcttt cctagcccag gtcaaagtgg gccttcggga ggaccctgga   120
ggagaagccc cctcctcttc acttccaccc tctctcttcc accctggaa gtcagctttc    180
tgacctcaga atcccagcta tcttctggac tcaggtgaca agtcacctaa gtgacagatc   240
cagcatgcac tttatgacca tcactctgct cctcctgcat cagcgcccca cccaacagag   300
ccgaccaggc tgggaacacc gagaccgaga gcgcgtggct gtgtctacaa aggcctcctc   360
tttgagggag acacgcgagg cacgggtggg gcgatgagac aggatcggcc ggtccttgac   420
agtctctgaa gctgggagaa catgaccca tgctctcctg ttggagtcac cacctctttg    480
ccaacagcca ccaaacctcc acctccaatt aagctccacc cccatgtccc cactgccctc   540
cggacatctg ttcagcaccc ccctcgacct ggccaaggct ccacgcaccg ccctggtttc   600
ccgctctgcc cagcccccg ctgaagtctc taatgggttc ttccgattcc acctgtccaa    660
ggtaaaaccc tgaggttgtc cctcctccgc ggcacctcca ggtatctggt tgctcaggct   720
gaaatgtttc ccaaggccct ggctcctctt cttttccaaac cccgaaggca gctgattagc   780
aaattttgac tctaacctca aaacatgttc cagaattcag ccacattctc cccacttccc   840
cgcctggccc tgggccccgc tattccatct caatctctgc nccggcgcgc gg            892
```

<210> 5782
<211> 1207
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (282)...(1125)

<400> 5782

```
ggaggcagga ggtcgggctg gggaggtgca catagtgatg ttaactttt cccgtgtgta     60
aatatggaca gccgaagggt cgtgtaaatg ttctgcaaaa gtgggtctat acagagtgaa   120
agctatttat tttgtgcaga gaaaaaagtc tggagggatg gaaccttcag ggtttattca   180
tatttaagat gtagcttttt gttgtttcag gcattatgta taaagcaacg attattttat   240
ggaccaagtt ttcatgtaac tgttgcagtg aaagtgcaat atctgacccc cctgctccca   300
gcaggaagtt gcttggcccg acaatcacag ccctgtcag gggccctgtg gccagtgcct    360
cctcctctct tggccccacc ttatcctgtc ttgcctgctg cctgggagac cagccatcca   420
gagaagcacc tggaagagtc tcgggccctc ctgcaataaa ggccgggagg ccctgtgggc   480
agtgggctca gcctctcccc aggggggcag ctcccccacg gctcctcact ccccgcctgc   540
ctgcccagcc gccagccatg ccaaggacaa cagcaatagt cccctggggc tctcccagcg   600
gccctcagcc atagatggca aggtgggcag cctgccccc catgggaagt ctcttctgta    660
tccaggtctg ctttccacct cccttcagat tccttttggc acattctcct cttgaggaag   720
taccagtctt tctgaaacta agagagggag ggcagcgtcc tttaaaaata ccaaaaatgt   780
ttacagagtt gggtgctgag ctgcagggct caggcctgac cagtcataac caaagggtga   840
ggcaggcctt gctgactgcc acccccagg cctgttagaa tagaagcctt agtcccactc    900
```

```
ccaccacacc cccacgcccc accacctgcc ttctctttga tttctaaaga gggggttcag    960
cagagacccc ccacccctcc ctggctcggt ctgagtccca ctgcccaccc catcacagcc   1020
ttcacgtctc agcccctccc gtctggtctg tccgtgtgcc gtctgtttct ctgggccatg   1080
tgtgagcagt gtccccatct ccccatccgt ccctgctgtc cccgcatcat tgggcctgag   1140
tgtgctctgt atacaacgtc atgtctgtta caccaattaa agaagcggga aggcttcaaa   1200
aaaaaaa                                                             1207
```


<210> 5783
<211> 2131
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (395)...(1798)
<223> similar to gi483843 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5783
```
ttttttttta caaagaaggt ataactttaa taaccctatt tacagataag aaaaccaaga     60
ctcagaagtt aaatggaaag gtgaggtctc tgaactaatc cagactctcc catgaggttc    120
cttttggcaag tcctgggctt ctgtcctcat ctgcaaaatc gaaagcattc ctgaggtttc   180
ttccagctct gcatcatcag agttgggaag cccgcctcca agcccggaag acccgcctcc    240
tctgtaaggt taaaggagga agaggcagag attggaggtt caggcagtga cgtaacttgc    300
tgccttaggt ggccttccgc tctggcggct gtcgcgacgg gggttcaggg aatatttact    360
gggcctctcc gctccctctg ctcttggagg tgccatgagg tcagttagct acgtgcagcg    420
cgtggcgctg gagttcagcg ggagcctctt cccgcacgca atctgcctcg gagacgttga    480
taacgatacg ttaaatgaac tggtggtggg agacaccagc gggaaggtgt ctgtgtataa    540
aaatgatgac agtcggccat ggctcacctg ttcctgccag ggaatgctga cttgcgttgg    600
ggttggagac gtgtgtaata aaggaaagaa cctgttggtg gcagtgagtg ctgaaggctg    660
gtttcatttg tttgacctga cacctgccaa ggtgttggat gcttctgggc accacgagac    720
actaatcgga gaggagcagc gtccagtctt caagcagcac atccctgcca acaccaaggt    780
catgctgatc agcgacatcg atggagatgg gtgtcgtgag ctggtggtgg ctacacaga    840
ccgtgtggtg cgagctttcc gctgggagga gctaggtgag ggtcctgaac atctgacagg    900
gcagctggtg tccctcaaga aatggatgct ggagggtcag gtggacagcc tctcagtgac    960
tctgggccca ctgggtcttc ctgaactgat ggtgtctcag ccaggttgtg cgtatgcaat   1020
tctactgtgt acctggaaaa aggacactgg gtccctcct gcctctgaag ggcccacgga   1080
tggtagtagg gagaccccag ctgcccgaga cgtggtgctg caccagacat ctggccgtat   1140
ccacaacaag aatgtctcca ctcacctaat tggcaacatc aaacaaggcc acggcactga   1200
gagtagtggc tctggcctct ttgccctgtg caccctggat gggacactga agctcatgga   1260
agaaatggaa gaagcagaca agctgctgtg gtcagtgcag gtggatcacc agctctttgc   1320
cctggagaaa ctggatgtca ccggcaacgg gcatgaggag gtagttgcat gcgcctggga   1380
tggacagaca tatatcattg atcacaaccg caccgtcgtc cgcttccaag tggatgaaaa   1440
tatccgtgcc ttctgtgcag gcctgtacgc ctgcaaagag ggccgcaaca gcccctgcct   1500
cgtatatgtc actttcaacc agaagatcta tgtgtactgg gaggtgcagc tggagcggat   1560
ggagtctacc aatctggtga aactgctgga gaccaagccg gagtaccaca gcctgctgca   1620
ggagctgggc gtggatcctg acgacctccc tgtgactcgt gccctgcttc accaaacgct   1680
ctaccatcca gaccagccac cacagtgtgc tccctcaagc ctccaggatc ccacctagct   1740
gtacttgcct catagctggt gaaggattct tctgaacccc cacctaccc cctaaaggcg   1800
tctttggatc acactgcgcg gctgctggct ccatcacaaa acaatgaagg aggaagtggg   1860
```

```
acgcagagag aaacgcacat ggggagaacg ccacgtgaag gctgaggtcg ggataatgca    1920
tctgcaagcc aaggaacacc taagaggacc agcaaaccac cagaagccag gggagaggcg    1980
tggaacagac cctgccttac agctgtcaga aggaaccaac cctgccaaca ccttcctgtt    2040
gtactttcag cttccagaac tgtgcctgca gggcttgaga gaaatggaga caaagaaggc    2100
cgtgggcagg aggccaagag aagcccagca g                                   2131
```

<210> 5784
<211> 1120
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1121)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1078)...(224)
<223> similar to gi6002599 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
<400> 5784
tttttttttt ttaagagaaa aggcttttta atatgaaaac tatgtatttg ggcacaaaaa      60
tgcaacacac agtaagaaac catattctat caattatgat attctgtaat ctaagaacac     120
agaaagtttt gttattagga aatgccaaga ggaaaaagaa ctctgtaaag tcctattcaa     180
tttactttgt tagggaaaag gatgtttatt tggcttttgt cacagttcca tcatggctta     240
ctcttcttgt aagttcagct tcaatgcctc gctagttctc agctttgctt cttcaattct     300
tcactttgag caatgagacg gatttcggca ttaagtctaa ataggactcc aatttttttcc     360
ttcaaaggta tagtctgttg ctttaatctt ggccagtttt ctctgatgag tgctactaag     420
gactggatng agacagagaa agcatccctg gcctctggcc gaaagttgct cccctgcagc     480
ctggatccca aatctgaatt cctctgactt ggcttttaga aagtcccatg ttctgacgac     540
gattatcaac tttggcccct ttctgtagac agatgcaact ctgctttctt gacatcctct     600
tgtagacatt tttctaatac taaagttgca gttaaatttt tttcaagttt ttccagttca     660
atcttgattt cttcactttt ggatttggta cgaaagagat cagaggtcaa atcattcact     720
gcagggataa aactagctag cgaggtatcc tttgtttcaa gggccaccgc actgtcaacc     780
aaagcattca gatacctgga accagtgcta gagagattgg cggggggaaaa attcacactc     840
tccatgagaa ggtcttgaag atacttggct tctgactcgt attcacttgc tttctgcttc     900
aagtcctcta ttaccaggta gacatccctg tcccggaccc tgttgcgttc tgaaaggtga     960
tgtaaaatct ctgtggtccg tgggttcacc tcatactgtg gaataggatg atctccaaat    1020
attttttttta accacgcagc aacctgcgtt tctctctcct cctgcggctc catagctgcg    1080
gctcccgcca ctttactagg aactcctagc gggagatgcg                          1120
```

<210> 5785
<211> 3022
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (2574)...(1107)
<223> similar to gi30821 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5785
tttttttttt ttcaggagcc aaggaagttt atttactcta ctgggtgaca ggagggcaga   60
gtgctccaga ggagacccag atacatcaac caaggacttc cctgagattt ggctttgctc   120
ttccaggcct gcacatgctg cgtgatgaaa tgaggcctgc ctagacatct gtgagggcct   180
cgagggctgc tgcctcgact ttctccctag ctaagtccac ccgtccaggg acacagccag   240
ggcactgctc tgtgctgact tccactgcag ccaagggtca aaatgaagca tctgcggagg   300
ccaggactcc ttggcatcgg acacagtcag gggaaaagcc accctgactc tgcaggacag   360
agggtctagg gtcatttggc aggagaacac tggtgtgcca agggaagcga gcatgatttc   420
tggagtggac tacatgcatg gtctggagtt cagtaaactg gaaagtttca cccccaagtc   480
ttaatttaat caaaattgct gaactctgtt caatcttcat tgttaaaagc agctttaaag   540
ctgggtgatt tcttagtcaa atgtataacg aagcttttac ttatcaattt cttttttggga   600
gggggcatgg gctgaaatac atcttgtgct caataaacct ccccacatca atatttcaaa   660
gcactttcta ggttacaata atgacatttc aattccatat acgcatacat agaatatata   720
tttttaaaca gagtgggtct taagagtata cttggaaccc tcggagtcct ccatggacaa   780
gaacagggtg gcccatggac ttccagccaa aggctccact gtggggctgc tttggggaga   840
gactcacagc tggacttctc tatccgacca tgcaatgtta gccagcacca attacccaca   900
atgctttgcc cataagagat agaaataatg gaactcacag gaagaaacag tattgataac   960
atacacaggc ttacagaggc caggcccagt aattaccatg agacagaagc ctacaggtgg   1020
cggtgctttg actgggctgg gattattgat acatttactg attacatcac ttcttttata   1080
aggcatatgt taaaacgcag tgctacttga aagtcgaaag gcacagcttt ccggggggagt 1140
catggaactc ctttcactat ctcatccgtg acctcctttg cgccgggggcc tggttgctct 1200
tgcgatcaag gggctgcaga acctcctatg agtgcccttc ttgaagctca ccaggtgagc   1260
atcggctccg ctggtgtaaa tccttccctg atctggctcg aacctggtcg tcggtcctcg   1320
gagaagaagg tcaggtacct ggagagcaca gtcaacatca cagttgccgc ccaaactggc   1380
tgtggtccct cgatgggttc tgtccctcca gaaaacgcat gcttattgga ccttgggttt   1440
gacctgtttg gccctgtcgg tgaggaagat ggaggagttg gggtcgctgg cactcatttt   1500
ggtctgggcg ccctgcaggg ctgggaagaa ggtggagtgc aacagggctg gtttaggata   1560
gccgatccct gggggcgacg tcccttgtca ttctaaagta aggatccctg gtcaatggca   1620
catgggataa ggcaactgga tatccgtcct gtctcggaag atctgtggga aatgagttgc   1680
tgaaaggagg gagcagcctg gatggcagga aaacttgatc tttcccaatg gaagtcgctg   1740
tcagtgaagc ccgaaaatgc ctttcacttg ggttgaaagg tacatgcttt ttgaatcttc   1800
accacatttt ttgtagaaac ctgagctcat ccccatgtag tcccaggtca gagaatatga   1860
aagtcttgtt gatgtcaaag cgacaggcga tgatgtcctt ggcattctcc acagcatagc   1920
tataggcctg gtccagggtc aggtccttcc acagatactt ctcgtcatcc gtcatctgga   1980
tgaccaaggg cacgttaaat acatcctgga gccactttgt gaaaaataaa tggaatgagg   2040
tgacctacat gcattgcttc aagaagaagg gccccggccc gtgtacagat aaaaatggct   2100
tcttaatttt cataggcaat caagaacctg attcatatct ctgtgtgaga agaagatgcc   2160
tctgcgcagg gaagtggtgt ggtctttggc cgggtggctc tctctattcg ggtttattag   2220
ctctttgtca attttactac ttccaaaacc gaaccaatgg agcttaaccg tagtctaatg   2280
ccctttttgca ctgcttgtct gtactgtcca tgggtccaca aaatcctctt cagcttctgt   2340
ggcatctggg ccatgattac tggtaggtgc tgggttccct ggaggacagt cagccttgta   2400
atcctccccc gcggcagctt tgtagctcat ttttaatgac accaacatct ttactgcaga   2460
atcaatttca tcctttgacg catttcccgc tttgagggac cttacgagct ccccttgtgt   2520
ggcgatgctg ttgaacagct ccagcagaga tgcgggctca ctgttgggca tgtttgctat   2580
ctctcaggaa ctacgttcac agccggcctg aggtcagagg atttgttcag cagacgagtc   2640
aagaccaggt tgtggaagac actgcagagg tggccactgg tcacgctggg cagttgagct   2700

4329

```
gctgagagtg ccctgcccag ccagaaatgg tctttaatac tcttcccctc tttctttcag    2760
tttcccttct gaaaaaagat gcttttgtct ttcgttctcc ccaccctgca ttcagctaag    2820
ggtttcttat aaatcaccca gattctcaga aacacttgag ctcttgacca accttcttga    2880
tgagactgtc caatcagggg tgggttgcct ggggggccag gttgagacca atgaaaccct    2940
cttgagaatc gagccattag ctggtcattg catcagccac ccctcacccc ccgctggacg    3000
aaatcgtcga cccgggaatt cc                                             3022
```

<210> 5786
<211> 1829
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1417)...(1828)
<223> similar to gi4191327 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5786
```
taactttttt atttataaat tttgtttttc ttgactaaat aaactttcct ttttattta     60
aaaatttaat tcaaatcaac ttttaaaata atttttcagc ttagtaccat acagttgttg    120
tccagtattt ttagaaaagt aaagtcttag catgaaactt ccttaaccta ttttagcctc    180
atgctttgа ctaaaataga cttaaaaact gaattaaatt tttatataca cttatattta    240
attaatctaa agagatagct tacatataga aattaagtaa aggggagatc tgtattttca    300
ttcaagatgt taaaggctag cacagaaatt ttctaggcat taaatcattg cttattacat    360
aatgttttta atagtttgct ttgatatcag tattgtgaat aacggagcaa attcagccat    420
attagttctg ttgacttcat gctcataatt ttgagaagtc caggcgtaaa ctaaaactct    480
tttggtgtac ttgaatattc tttgtttgtt gatgtaaaat atgtaatctc tgattttata    540
gttaacaata aaaataaaat tttaggtgag tgaaagcagt gatttaaatt taacagtgtc    600
ctcttgaaaa accttaatca cagttaagtg atggcatggg caatgaattt taatcatatt    660
taggaataaa atactagata ttagtgtata acaattagat atatgttaat tgagcactac    720
aaagcctgaa agcttaacaa agtggggcta taactagtaa ttttttggta aaaatatagt    780
gatctttttc tacagggtat tattataagg gacaaattat agttgtaaat tagattaatg    840
aattttgtga gttttaaagt ttgtacgaac catgtctccc ttgtgtcata ttttccaata    900
atataattac ctaacaatga cagaattata cattttccct ttaattctct aagcattgag    960
taaacagaaa aatataggga tgaaatacac acatgccaac attcaaaact ttgtactaac   1020
tagaaacaaa aatagaaggg gatttataaa ggaaatgat ggagacattt tagagaaatt   1080
aagtataaat cgcaacattc tgttttcttg gatgtattct gggtagcttc tagttacttg   1140
taaacaaagt attcattgtt tttgtaataa agtgataatg ttttgtttta tagttgagtg   1200
gctttagggt aatttaatca cctggaaagt gatatttttt taattacctt ttgttactaa   1260
atcttatcta atttaaaata ctatgttttg aaagtatata tcttgtatag ttatcttttt   1320
atatgaaaat gaactctaat acatatcttt ctttcagtgt tcatatcaca aagctcaatt   1380
aaatggtcct ggaaaaaaaa aatcgttcca tgttgttcca ggtcccgttc aagaagttct   1440
tccagttcgc agtcaagatc tcgttccagt tccagagaac gttcgagatc tcgtgggtcg   1500
aaatcaagat ccagctccag gtcccacagg ggctcttctt ccccacgaaa aagatcttat   1560
tcaagttcat catcttctcc tgagaggaac agaaagagaa gtcgttctag atcttcttca   1620
tctggtgatc gcaaaaaaag acgaacaaga tcacggtcac ccgaaagcca ggtgattggt   1680
gaaaacacta aacaaccctg agcccagggc caacccctac ggaacaccac tactttaccc   1740
agacgccaca ggtcatcatc tggatcatcc cattctggtt cccgttcaag ttcaaaaaag   1800
aaataatgta ttaaaattta catcttaaa                                     1829
```

<210> 5787
<211> 1327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1085)...(884)
<223> similar to gi288145 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5787
cccacgcgtc cgcggacgcg tggggaaaga aggcgccgca gctaagccca ggtctctcct   60
ccgcaggttc cagctccttt cctggagcgt gtgtgggggc aacaaggacc catgggttca   120
ggaattgatg agctgtcttg atctcaaaga atgtggacat gcttactcgg ggattgtggc   180
ccaccagaag catttacttc ctaccagccc cccaatttct caggcctcag aggggggcatc   240
ttcagatatc cacacccctg cccagatgct cctgtccacc ttgcagtcca ctcagcgccc   300
caccctccca gtaggatcac tgtcctcgga caaagagctc actcgtccca atgaaaccac   360
cattcacact gcgggccaca gtctggcagc tgggcctgag gctggggaga accagaagca   420
gccggaaaaa aatgctggtc ccacagccag gacatcagcc acagtgccgg tcctgtgcct   480
cctggccatc atcttcatcc tcaccgcagc cctttcctat gtgctgtgca agaggaggag   540
ggggcagtca ccgcagtcct ctccagatct gccggttcat tatatacctg tggcacctga   600
ctctaatacc tgagccaaga atggaagctt gtgaggagac ggactctatg ttgcccaggc   660
tgttatggaa ctcctgagtc aagtgatcct cccaccttgg cctctgaagg tgcgaggatt   720
ataggcgtca cctaccacat ccagcctaca cgtatttgtt aatatctaac ataggactaa   780
ccagccactg ccctctctta ggcccctcat ttaaaaacgg ttatactata aaatctgctt   840
ttcacactgg gtgataataa cttggacaaa ttctatgtgt attttgtttt gttttgcttt   900
gctttgtttt gagacggagt ctcgctctgt catccaggct ggagtgcagt ggcatgatct   960
cggctcactg caacccccat ctcccaggtt caagcgattc tccctggcct cctcctgagt   1020
aagctgggac tacaggtgct caccaccaca cccggctaat tttttgtatt tttagtagag   1080
atggggcgct gagtggactg caaggtggac aggagcatct gggcaggggt gtggatatct   1140
gaagatgccc cctctgaggc ctgagaaatt ggggggctgg taggaagtaa atgcttctgg   1200
tgggccacaa tccccgagta agcatgtcca cattctttga gatcaagaca gctcatcaat   1260
tcctgaaccc atgggtcctt gttgcctcca cacacgctcc aggaaaggag ctggaacctg   1320
cggagga   1327

<210> 5788
<211> 2029
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1944)...(1946)
<223> similar to gi868213 in the genepept database release 114,

```
<400> 5788
tttgatggaa aaatggaatt ctcagttcat ttgaagaata cagattagca attaaaaaat     60
acagcagtat ctcaggaaat aaacattatt ctcattttac aaaaaagtgt atgtgaactt    120
taaaaaaatc tacactacaa tatgaattga tattatctct gggtagaatg ctaacaattt    180
tattttctcc tttactgtat tcactaaatg tttcacatta aatgttgtat tacctttgaa    240
atcagaagat acattgtcta aaactgatac atcaaggaaa tagttgtata aggcatatta    300
cctaaacaca gagggttacc aacaggaaat taaagtgggg ttaaaaatga ctcctggggg    360
gaactgtaag gaagagggaa gggtgaaggg gaaggaaatg ggttgctttc cattctaaat    420
cttcacacaa tctattctta aaatcagaca agggctgtgg taaatttttt caattattaa    480
aaaaaattat ttcttctaat aggaataggc ctttgagaac cctattaatt gtaataggtt    540
tcaattcagt tagtcactca agtattataa aatgcaactg gatttacaga aataatttcc    600
tacctacact gacagtatat ttaaactaaa aaaaaagcat acaatgtaca aacaaattta    660
tttacaaaaa ttacaattac aaactgtaca aattgagaca atttcccatg cctccaacag    720
aagccaagag cctttactgt caaatggcag ttttttgttac ttttaaatga cacacaaaaa    780
gaaatatgat gcctattcag tcatccactg ccagtttaaa aatgcttttc taaataattc    840
caagaagcct attagtgata tgtatatgga taatttccct caactctatt tctagaatgg    900
ctatgtacaa atccagcaaa actggaacag aacagggtaa gaaagcacat agcaactgct    960
ttttcaacag taaattttga ctattcccct aaatatctac ctagtggctt aaaactaaaa   1020
ctatggtctt tggctttaaa aagaaagtca aaaaattttg acttttaatg actgcacaat   1080
tctaccaaag ccagtgttta cctgggtatt ttttgtcacc tgtagtttac atttccctgc   1140
tactgttaaa gaaacagaat tctacagtat tcaattctgt atattgtctt ttaaggtttt   1200
tcaatcagac tcactactac tgcttgagga gtccgttgac ataatctcta catcatcttc   1260
attttcttta ttatgcccag gaggttccaa caaaaagtca ctactatgat ttggtggtaa   1320
catattcatc gacatgtcat ttgactgcca tggatactgt ggagcaagga catctggcaa   1380
tcttcctgct gcaagtgcat ctcctggtaa atggccattc acgccattag tggaaggatt   1440
gttcatctga cccagtaacc cacttctcat ctctaaatca gttgggtagg gtctccgggg   1500
gtcccctgga acccaggtca gtggagcaca tacagcatta cttgcactga tcctatgtgc   1560
atacttaatt atttcttcag aggagatagc accttttctt gcttttttcta ttgacttgag   1620
tttctccttc gcttggtaaa cagctgttgc cagtatttgt tctgcttcct ttagctgttt   1680
ttgtagctgc tgaatatcac tgtctctctt ctctacttct tttttctaaaa cttgcatttc   1740
atgatgaatt tttccctgat taagtgccaa tttcattagt tcttgaaatt ccccatctcg   1800
gtgaattaac aactccagga cctggttttc ctctccagcc tgtaacaact tttggtttct   1860
tgaaattgcc agcatttcta taagttccct agacaggacc tccaagtcct caagcgcaga   1920
cagcagccgc tctcgtgtgc tgttaccacc cgccactccc aaaccgcctc ccagccgctc   1980
cttctccttc tcaccactcg aagacgcagc cattttcccc agagtcccg            2029
```

```
<210> 5789
<211> 3356
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3357)
<223> n = a,t,c or g

<220>
<221> misc_feature
```

<400> 5789

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tttttttttt ttccagttct aaaaccaaat ctttattctc tagtttgaaa aggaggggta    60
aatggttgtt ctgtttagtt ccagagaaca gaacaaggcc caataggtag aaattatagg   120
aaagcagaat tcattcatta taaggaagga tttctaacaa ttagaatttc taacaattag   180
aatcatccag ggcctcagga ggtgcggaag ttcctgtcac ctaagtgctc aagcagaggc   240
caggtgtcca tatgctagaa atggagaaaa ggaaactcac cagcaacttc ccctcagctg   300
gccctccatc accaatgcgg cagtccttgc cgtgacatgc tgagctctgg aaggagcgaa   360
ggaggggctg cggtgttcag acaagagcct ggacacagtg ctgctgacag ccaggggagg   420
ctctcagcgc tgggaggggc gacagataaa gcgagacaga ccaaggagta aatgccttgg   480
ggtctgctct ttgggaagga agaggatgga agtactaaca gcagacgggt ctctccaagt   540
ctgggtgcct acgcagggggg caggtgggag gggaaggggag aggtaagagt ggcttcgctt   600
cacctcttgc tgctggcaaa ggcccaagtg ctgtctaaca aggccagcag gttctccaag   660
ctgtatctag cccagagcat tcatttacag gactctacca cgcctgcttc caaaaatgat   720
cttaagtaac ttacagtaaa agacaggggc attaaggcgt taataccaga ggatggaggg   780
tcttccttte cactggtggc tcctctagcc agagggctct aaggggcgga tgctattgct   840
gcttttccag ggcacagggc agtcaggacg gagccttagc acacaccagc tggaggccgg   900
cgtccctgcg cttggaagtg ggttccctgg ccaccggggt tgacctctct cgctagcagg   960
gcccacccag ctcactcccc gcgtcttcca tcccctctag gattcccatt gtccctact  1020
ccagcactag gcaggcaccc ccagcccact gcgactccca ccacgaagga ccccagccct  1080
ctctcagcca acacggcccc gcccaccgtc tcagacatcg tgcttcttct ggtgggccag  1140
gagtctctcc tcgtcgtcga aggtctggcc acagatggca cagcagaagg cgccgtcccg  1200
gatgtggctc ttgcggtggg tgatgaggtt ggacttctgg ctgaagctgc ggtcgcagtc  1260
gggacaggcg tagggccgct cgcccgtgtg gatgcgccgg tgcgacaccg aggttggact  1320
tctggctgaa ggctttgcgg cagtcggggc agacgtaggg cttctcggcc ggtgtggcaa  1380
tcggccggtg cgccgccagg tagggtttgt ggcggaaggc cttgccgcag tcgggacaca  1440
cgaaagggcc gaatcggggg gcgttgggtt ccgccgaatt gcggccgcca gattggcttg  1500
cccttggaag aaaacgccgg ccgcacttcc tcgcaaggcg aaagggccgc tcgccggagt  1560
gcacgcgcga gtgcgccacc aggtgcgtct tcttgccgaa gttcttcccg cactcggcgc  1620
aggtgaaggg ccgctccccg gtgtgctgcc gctggtgggc ccgcaggaag cgctccagcc  1680
ggaagctcct gccgcagtcg tcgcagctgt agagggaggg gggggcttcg atcgggtcct  1740
gcgggtgctc tggcggggcc cctggcggcg gctcctgggc cggtttcaga ggtaccgccg  1800
gggtgggctc ggccgcggac tcctgggggc cggctggcag ctgggggctc cccgggccgg  1860
gggcggcctg ggccgacccc tcggatcgct tgtgaatctt gctgtgagac agcaggttgg  1920
gtttgtgccg gaagcggcgg ccgcactctt tgcacgggta gggctgtctc gccgtgtgtg  1980
tgatgcgccg gtgtcgaagt cagatagggc ttattggtaa agcgcttctc cgcactcgcg  2040
gctacttggt ggggtcgctc gcccgatgtg cacgcggcgt gtgagcngat caagttgggc  2100
tttgtgccgg aagcgcttgc cacaacaggc acacatggaa ggggcggtcg acggcatctc  2160
caccggngcc ggggggcgtg tcacccgtgg ggggccccct gggccggggg ccccagaaga  2220
ccttggctgg cgggcctcgc tcctagggcc gtcggctaac gtgcacccgc ttgtgggcaa  2280
ctttagctgg tcccacgtgg gcaaaatgct ccggccacag ttgccgcata tgaagggccg  2340
gggccctctc gggcgggaag ggtggcaccg ccgcaggatt gagctcgaag ctgcctttcg  2400
tcgccagaaa gcgtctctcg ccattttggg acaagcgaat gggccggctt ttgcagctga  2460
atgggcccgc agatgcagaa ccagggccac ccagcctcgg aagctctgcc cacagaggtg  2520
gcaggcaaag ccccagtctg gggtggcagc agcatggacc tggcggtgca gtgctaagaa  2580
ggggggcatgg cgaaagcgac ggccacactc agggcagggc aagggcaggc cggggcctgg  2640
caccggcggg tgtgaagcca cagaggccac ccagccaggg aagtgccttc gacagtgggc  2700
acagcgatgg gccctgcctg gggcttgggc accagactag ggccactgac gtgccttgtt  2760
gcctcagccc gcgggactcc ttccccaggg tctggggtga ctcctgggag ggcccagaaa  2820
ggagtcgggg ctgggccggg cccatggcca gggggcccct gcaacgacgt ccagcatcg  2880
gttcttcctc tgcaagaaaa atgtggcnac tgctccctac agtgccttna tgctgccctc  2940
```

4333

```
tccctgtgtc tgctgtttcc tatgccacat ccgagctgca cagcaactct gagaagctgg    3000
acaaacagac actgagctcc cctggagact gcagagctgg ggatgaggct ttttccagct    3060
cctcttgggg atgttcctgg ggatacttcc gcggctgcag cgcctgcttc ggcccacact    3120
ccggtagccc ccaggtgtta gagaaaactg cagtaataaa gacacccta tccccatggc    3180
agagctcaga cctctgactg cagagaggcc agccttacct ctgcggcggg ctgtgcaggg    3240
acgcggcgcc cgtccatgga gcccgaaggc cggcctccgc ggcccactct cgctccccgc    3300
cccgccgcgg cgacagcggc aggttcgagc ctcgtgccaa gcttggcgta atgagt       3356
```


        <210> 5790
        <211> 2319
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2082)...(514)
        <223> similar to gi5764665 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5790
```
tttttttttt ttttaaagtg caaatggctt ttattgaggg cctactgtgt gctgggcaac      60
atgtctgcaa gggtcctgct ttacctccct gtactttgca ccggccaggg aggagggtgc     120
tggggagacc caaacatcaa gctggggggag ggtgctgagg tggaggtaga aggggggcaga     180
ggggcccctc agctgagtcc ttagggaggg aagggatcct ggggtctgcc cagcttgaaa     240
cagaagctgg gggccacaag gccctgaatc aggccaggca gggtacaggg gcctgggagt     300
cctgctcctt tgctgtgaga cctttaggga atgggatcca tctctgagtg gtttctcccg     360
atgaaagaca ggtccagagg gcagagtggc catgcccaag gtggtggcca ggtctgacag     420
gatctgcagt ccctgccaac aacctcctcc tctgctctct gggcagtagt ggcctgctcc     480
tggacactgc tttgcagtca tcacctggac ctagagctca tctcggggct ggggttggag     540
gctgtgcccg ctgctgccag tcaggtccag gcggggggctg cgcagggtct tttgggagcc     600
gctccagctg atgaggcggc cgctgtcatc atcccatgga gaggatgtct ccgtgtcact     660
gagccactcg gcgtccccgg catagtgggt aggggcagcg agcagggggct gggcggagaa     720
ggccaccagg tcccgtggcc agaagtgtgc cttgtactgc tcgttggggt gctggtcgaa     780
catgatgggc aggaactcgt ccacgggcag catgcggcgc agaggctgtg aggccagcag     840
cttgcgggca cccgccagac gcagggcata ggccagcgtc cagtaggagt acccagccac     900
caccaggccc ggcagcccct ccacggccgt ctccttctca gggttcacct gcttccgtcc     960
gaggtagatc aggtcccaag acagtttctc tgcctccaca tcctccatca gcccgctcca    1020
gccgcccct gaagttgctc tcaaagcgca cgtcattcct tcaaacaacc aggaccccgg    1080
ggccaggccc cctgggaaac cacctcttcc ccagatggag taatggtctg aggaaagcaa    1140
gcccacctcc gctcttggtc agagtgcggc ccgagtaagg gtcctggtag cccgggagca    1200
ggtctacgcc gaggttcctg atggcactgc tgttgagcat ccagccatcc acagcgtcca    1260
ccaccctccc agagatctcc atctcccaga gcgaggcgag catgcgttcc cgacggtcag    1320
gcctgcgagc caggctgatg acaaagacct cgtcaaaccc tatcttgctg ggcctcttag    1380
agggccgagt cacatgagct gaggcctgca tgcggggggcc gtccactagt gcttctaaga    1440
tcaggtggat gaagttgacc ctctcgtctt ccagcccctg gtgggatttc accggcacat    1500
tcatgtaccc ataacggtgc tcattgcaca cgtggacgga gacccagca gcctggcagg    1560
cataggcgaa gacgatgatg tcgtcgaaag gccaagtgta gttgggatgt ggcgggtaga    1620
aagcaagctg gtctgccct tcagcccgca gggatgcaag gaaggtggag tggaccatgg    1680
ggacacggaa gcagccccgg cgctggcggt tcttggtggg gaagtactcg gctgtgcggc    1740
ggtagtagcc ctggggggtg atcccacacc agaagttgga gtagtaggtc tgggagtcca    1800
```


                                    4334
```

```
gcattggggc caccactgga agcccctgcc ccatgagaag ccgcagagtc tgattgttgg   1860
tcagaatgtt gtctgtgtct gcaaacagga tatagtcggc cccccagttc ctggcaaagg   1920
tgagggcttc ctgcttcagc tccatcagaa actggtgcct ttctttggtc cagtgcttgg   1980
gaccctcttc atctgggtag aacctgggct cgccctcagg cctccagacc acagcagcat   2040
agtcatcgcc cacagccgcc agccactcct gcagcatctc tgtggtgttg tccacattgt   2100
ggtccgtggc acaccagagg gccatcctgg cccggggggta gtccagccgc tccagagcgc   2160
ccaggtagtg gggcagcgag tgttcggcat tgcgggccag gatggcaagg accacggcgg   2220
gcagcggcga ctccgcaacg cccgcagcct ccagccacgg ccccagcagg agcagcagct   2280
ggagcaacgg cgcggcgcgg gcagcgcgca tggcgggcg                          2319
```


<210> 5791
<211> 3679
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (341)...(3349)
<223> similar to gi4529889 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5791
```
gctgtgtata tggccacata taaaaggtct tttaacttta ttaagctttg ttttctcatc     60
tgtaaaatgg aaaagggcct gctctgcatg gttgcagaga tgagtgagtg ttagtgtgct    120
tgacactctt cctctgagga aatagcaccc gtggttgcca gtttgtggct actggagcct    180
cacatggcat ttggaggtgt ggctcactac cccacccccg cctggggctc caggctaacc    240
catgcaaaac tgtatgtgct ctctgaccct cagtgtgctc cctctcggcc cacagccccc    300
ggtccctgag aagcggcccc ctgaaataca gcatttccgc atgagtgatg atgtccactc    360
actgggaaag gtgacctcag atctggccaa aaggaggaag ctaacctcag tagggtggcc    420
tgtcggagga gttaggttct gcccggcgtt caggagaagt gaccctgacg aaaggggacc    480
ccgggtccct ggaggagtgg gagacggtgg tgggtgatga cttcagtctc tactatgatt    540
cctactctgt ggatgagcgc gtggactccg acagcaagtc tgaagttgaa gctctaactg    600
aacaactaag tgaagaggag gaggaggaag aggaggaaga agaagaagag gaagaggagg    660
aggaagagga agaagaagag gaagatgagg agtcagggaa tcagtcagat aggagtggtt    720
ccagtggccg gcgcaaggcc aagaagaaat ggcgaaaaga cagcccatgg gtgaagccgt    780
ctcggaaacg gcgcaagcgg gagcctccgc gggccaagga gccacgagga gtgaatggtg    840
tgggctcctc aggccccagt gagtacatgg aggtccctct ggggtccctg gagctgccca    900
gcgaggggac cctctccccc aaccacgctg gggtgtccaa tgacacatct tcgctggaga    960
cagagcgagg gtttgaggag ttgcccctgt gcagctgccg catggaggca cccaagattg   1020
accgcatcag cgagagggcg gggcacaagt gcatggccac tgagagtgtg acggagagc    1080
tgtcaggctg caatgccgcc atcctcaagc gggagaccat gaggccatcc agccgtgtgg   1140
ccctgatggt gctctgtgag acccaccgcg cccgcatggt caaacaccac tgctgcccgg   1200
gctgcggcta cttctgcacg gcgggcacct tcctggagtg ccaccctgac ttccgtgtgg   1260
cccaccgctt ccacaaggcc tgtgtgtctc agctgaatgg gatggtcttc tgtccccact   1320
gtggggagga tgcttctgaa gctcaagagg tgaccatccc ccggggtgac ggggtgaccc   1380
caccggccgg cactgcagct cctgcacccc caccctgtc ccaggatgtc cccgggagag   1440
cagacacttc tcagcccagt gcccggatgc gagggcatgg ggaaccccgg cgcccgccct   1500
gcgatcccct ggctgacacc attgacagct cagggccctc cctgaccctg cccaatgggg   1560
gctgcctttc agccgtgggg ctgccactgg ggccaggccg ggaggccctg gaaaaggccc   1620
tggtcatcca ggagtcagag aggcggaaga agctccgttt ccaccctcgg cagttgtacc   1680
```

                                   4335

```
tgtccgtgaa gcagggcgag ctgcagaagg tgatcctgat gctgttggac aacctggacc   1740
ccaacttcca gagcgaccag cagagcaagc gcacgcccct gcatgcagcc gcccagaagg   1800
gctccgtgga gatctgccat gtgctgctgc aggctggagc caacataaat gcagtggaca   1860
aacagcagcg gacgccactg atggaggccg tggtgaacaa ccacctggag gtagcccgtt   1920
acatggtgca gcgtggtggc tgtgtctata gcaaggagga ggacggttcc acctgcctcc   1980
accacgcagc caaaatcggg aacttggaga tggtcagcct gctgctgagc acaggacagg   2040
tggacgtcaa cgcccaggac agtggggggt ggacgcccat catctgggct gcagagcaca   2100
agcacatcga ggtgatccgc atgctactga cgcggggcgc cgacgtcacc ctcactgaca   2160
acgaggagaa catctgcctg cactgggcct ccttcacggg cagcgccgcc atcgccgaag   2220
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acgtgtggtt tgcgcttcaa ctcaaccgca agctccgact tggggtggga aatcgggcca   2460
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cctgtgtcaa cggtgtggat ggggagccct gccctgagga ttacaagtac atctcagaga   2580
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gtgtggacga ctgctctagc tccaactgcc tgtgcggcca gctcagcatc cggtgctggt   2700
atgacaagga tgggcgattg ctccaggaat ttaacaagat tgagcctccg ctgattttcg   2760
agtgtaacca ggcgtgctca tgctggagaa actgcaagaa ccgggtcgta cagagtggca   2820
tcaaggtgcg gctacagctc taccgaacag ccaagatggg ctgggggggtc cgcgccctgc   2880
agaccatccc acaggggacc ttcatctgcg agtatgtcgg ggagctgatc tctgatgctg   2940
aggctgatgt gagagaggat gattcttacc tcttcgactt agacaacaag gatggagagg   3000
tgtactgcat agatgcccgt tactatggca acatcagccg cttcatcaac cacctgtgtg   3060
accccaacat cattcccgtc cgggtcttca tgctgcacca agacctgcga tttccacgca   3120
tcgccttctt cagttcccga gacatccgga ctgggggagga gctagggttt gactatggcg   3180
accgcttctg ggacatcaaa agcaaatatt tcacctgcca atgtggctct gagaagtgca   3240
agcactcagc cgaagccatt gccctggagc agagccgtct ggcccgcctg gacccacacc   3300
ctgagctgct gcccgagctc ggctccctgc cccctgtcaa cacatgagaa cggaccacac   3360
cctctctccc cagcatggat ggccacagct cagccgcctc ctctgccacc agctgctcgc   3420
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cagagatccc agccaggccc tggaggtctg acagcccctc cctcccagag ctggttcctc   3540
cctgggaggg caacttcagg gctggccacc ccccgtgttc cccatcctca gttgaagttt   3600
gatgaattga agtcgggcct ctatgccaac tggttccttt tgttctcaat aaatgttggg   3660
tttggtaata aaaaaaaaa                                                3679
```

```
<400> 5792
aaatgcaggt agttttccc ccttttcccc ttaaaaattt ttttttccc taaaagcttt     60
aaactttgga gggagggtgg gccaatttgt ccccccccca aaaaaaggt tcctttccaa    120
aattcccaag taggtttta ataggccccc cataaagaaa aaaattttc cttgccatcc    180
```

```
      ccggttaaaa ttgggccccc caagggttct tttaaaaggg cccccctttt tttttttttt    240
      gcactgaagc agaagttgct ttaatcaagg ggtgaagtcc tcaatcaagg ggacctcact    300
.     taacctttgg tggtgggggtc tcagcctacc ccccacaagc cctgaggccc ctcaggaagg    360
      agggagcagt tgaacaacaa attatggcag aggccaggga atgggagtgg gggaacccgg    420
      gtcaaggtga aggggcagga cgctgaaagg gtgggagtga agctgaacgg ggcaggaaga    480
      gcttaaccca cgtttctacc tgggggctgg ctgaggtggc tgtgcatcgg gcagagcggc    540
      accagagggc tgagggtcga aggggacagc aggggaaagg agtgcttagg agatgaggcg    600
      actgtgaagc tggtgcagct gctcctgggt cagcaccagc cggtgtcgct gtccaaaacc    660
      agccgcacat gagaaggtca cttttgcccat gtagactgtg tcatcctgct gctcctcctt    720
      ggccctgagg aaggctgatg aagggaaggt ggcaaagtca gtgggtactg tggctccagg    780
      gcgctgagat actgtctcct tgaggacctc atccttgagc ttctcgacgg tgtcactcag    840
      ggacttaagc tgagccactt gctccataag ttgggccgac gggctcttgg cagcagggct    900
      ggtgcgagtg atgtctacta cgtgcgtgtg tgtgctcaat tgattcaatg tctccagcag    960
      ctggctggtc ttacgataca gcgctccagc tggtaactca ctgccagggc cctcatggga   1020
      tagctttgca acatgcagag ggggcaggga tgccaaggat gccttcatct gggctccctt   1080
      gaggatgctg ttctcatgct ggagctggga gatgtgcagc ctcatggcag agatctgctg   1140
      aagcagcagt ggtgagtcct tcaccagccc tgggcctggc acagaccctg gagcctgccc   1200
      agggatggct cctcgctgct gttcttcacc agcaatgcca gagaccagag tagcaatgcc   1260
      tgaaggagga gggccccgga gtccctcaat cgtgcgtttg gactggctgt tcagacgctg   1320
      ctttagttct gccttctctg cctccagctg gtcgatgtca gcctggagtg catccattgt   1380
      ctcctcaaac tctttctcct tctttcgcag cagtgcctgg gtctcctcca gccgagtctg   1440
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      ggtcagccgc acattggcct cacttagctc ctctccctta atcttgagtg acttcttcaa   1560
      ctccttaata actgtctctc gatcttcgag cttcaaaccc aggccttcag catctgtgat   1620
      ctctgcacga agggcagcag cccgcagttc aaccgggggg aggcttgctg gggggccgct   1680
      ctgcatcata ctccccctcc tgcatggctg tgaccaactt tgttcatggt actgatgagg   1740
      atgttgcatg actggcgcag acactcatag gggctgctgg aggggggtccc atagatctgc   1800
      tcgcttgctt tgaaagccag ttcctccaga gcagccacaa gtagcccctc attctctgcc   1860
      agtggggcaa tgagctgggc agcagcagct gccacctcct gcagcacagc cacgacccac   1920
      gtcaagtgtt tcctgcagtc taggagcgtg tcagatacct gtggtccaaa ggccagcgca   1980
      gctgggatcc caggagcatc tgtccctggc attcgccttc ggatcttctt gcagaactgg   2040
      cggatgtgca ctgcatgaag tttccagatc ccggagcagg agggcaatat ctgtagcctc   2100
      ctgcccaccc tgcaagaagg cacgcagccg tcctacctcc acactcatgc agtccagagc   2160
      actctgcgtg aacttaatgt ggtcagccag ctgcatagta cagtcctcag gctgttcggc   2220
      aaggtggatg ctgtacagat gctgatagta cttgatggcc ttggtgagag gctccacatt   2280
      gacagtctca tccagctgat ccttgtgcag cagttcaatg aggaaatcca aggagcgctc   2340
      atgggcactc atctcagggt acaggctgcc cactttctta tacacaatcc aacctgcact   2400
      gagagagggc atggcatcaa tagcggtggt agcggtggcc tgcagcaggc atcagcgagg   2460
      tacaccagtc ctatggctgc aaagctgagt tgctccccag cagctcctcg cagcccaggc   2520
      cgctctgaac agttctcact tagttcaaac ttctcctggg cctgcttccg gatcagctct   2580
      gccttgcaaa tgagacgagg catgagcaac agcaccagaa cgcagtcatg gtccccacct   2640
      ggccgaagga agctgtcagg catgaaggct gtcagcaggg acatgtgtcg attggcctgg   2700
      gccacctcca tctgcctcaa ttccatctca attgccttgg catgggcctt agtctcagca   2760
      aacttgattt tgaagtcaaa ggtctctgga ggtggctgct gttgcctctc cacagatgct   2820
      tcctgctggt ttgtcagttc ccgattcaca tcctgtagat gggcggtcag ctggcggtac   2880
      ttcttgatgg tctgctggta gtctgcaacc gtctcctggg ctgcctccac acgcttctgg   2940
      gcctcacgaa cccgcgcgcc tgccatgtcc agctgctccc gcagctccag ttctgtctca   3000
      cgtgcattct cctgcagctc atcgttcatc tcattcatcg cttccaagtc tcccacagtc   3060
      tccctcaact cgcgcacttt ctcttccaga ttcaggttcc gatctgtcag catctccacc   3120
      atctcctcag cacccagagc agcatcgacc tgctccttga gctcatcaat ggtgctctct   3180
      gcctggctta gctcctcctg cagacgctcc cgctgttgcc tcacaacttc cagctcttgg   3240
      ttcttctttt ccatgagctt ctggagcttt aacatgctcc tgcttctctg aggaagaaag   3300
      atcccgcatc ctcaccaggg catccttcag gcgggcattc tgctcctcaa gctgcttgag   3360
      ctgataactg gatgcagcgc catctgagcc cttctcttca atctcagcct tgaggatctc   3420
      taagtcagta gtgagctcgt ccacccgctc cttcagtgcc tccacctcct gctgcaggga   3480
      ctcagcccgc tcttcagcca tctccttgtc caaagtggcc atctcaatgg catcagcagt   3540
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4337

```
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tgcccgtttc agtctcaggg tctctagttt ctcctccagg tcccgcacct gagcccttag   3780
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cggcgtgggg atgatgggtg ctgccagcgg agtctgagcc ggggtgctgg gctcactgct   3900
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tcttttgagg acttttgaag cagaagaatc aggtgtctct ggggaagtag tatctgctcc   4140
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gaagtacttc ctgccttgaa cagttccatc attttttgccc tttgcttcat ccagaatcac   4260
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gccttttcca atcacctcta cacgggagcc cacccgcaga ggccgggcgc ttgcctccgc   4380
actcatcctg ctgccgctgg gcgtccggct gtacacgtgc ctcttgctct gtgccatgtt   4440
gctcacccgg cctctacccc ctcccccagc tggccaaaga cagagagaaa aggtagaaac   4500
ctaggcagga gggtcagggc gctgggccct catagaggga cacaggagtc gtcaggcaca   4560
gccctcccca gtccatgggc ctcactcggt ggcctacacg ggtaggggtg ggggcagtga   4620
tgggggctga ggagcaagtc ccctctgctg cctgaggatt cctgaaccca gagacacaga   4680
atcctgcttg ccagctgatg agtctcactc tgcgctagtg c                        4721
```

```
        <400> 5793
tttttttttt ttgactgaac gatttctaaa ctttatggaa aaagccaatg acaatcaatt    60
agccaaaaac gagacgccaa atcccatctc actccagcgc catgccctct tctcaaacgc   120
tcgccggctc taggacctct ccaccagcac agttctcagg agtcctgctg gtctcccagt   180
gctgttctaa gggtccacat gaaggcaggt caggcgggac tccccgggca agcacttctg   240
tacgcggaaa gcacgaggcg caggagccat ggagagccgg tcctttggag acaggaatac   300
ttaagaggat tggcaaaccg gagaaacgct gggagaggtg ccccgcactg cggtggtaag   360
gcagagtctc agttctcctc gggcttgtcg gctggcggtc cacaaggctg aagcatcttt   420
tccatcaagt tgaagcggac tcgcgctttg ctctcattct ccgcaatggc gaagtagttg   480
agaaggtcga agtggcccat gtaggagcag tacgagtcgc ggtgttggtt caccagccac   540
tcccacttgg tggtgtcggc gtggcccgtg ccgatgtact tggactgcag gtgctccagc   600
tggctatgga tggtgtagcg gtcagtcatc tcgccgcttt ccccttcgct ctcaggtcag   660
aggacgcagg taacaactcg ccgctctagc gttttacagg agagtgaagc caccgcgcgg   720
aagctccagg tccgcgccgt cgcagaagaa tggcggaatt ccnccncatg gggtagcgaa   780
```

                                  4338

<210> 5794
<211> 1070
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (353)...(764)
<223> similar to gi4406556 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5794
tttcgtctca cttcagccag agagcggggt tagggcttca ttgccttgtg tcctctgctc   60
cgggagactt cggtgattct gccactccct ccgtcgctct gtgacctgct ggcattgaat   120
gatttatagc taagactcca ggacacccct gaagccgaga aatgaaatcc caagttgacc   180
gtcaagtcca acgctcgctg cagacatcta gtggacccgg cgctcgcgga cggaagcgga   240
cagacctagt tggatcctta tcccaccaat ctggcccacc tttgctgcca tctaacaccg   300
ctgaccggcc caccgttcct ccactgtccg ctggttgacc cgggcagcgg agagaggagg   360
gtgttgtcaa tggaaatatg gattcttcta cagcaaacat gtacatctat atcatgtgga   420
acaaggatag tgggaaaacc tctgattgtg aggacgtaga actgagaaga gcatatgaaa   480
tgtcataaga aaaacacttc tggagcatgt cgtcttcaag aaaatggtgc ccagacagtc   540
aggattgtgt tacatttaa taggaatggg gatatttgtg atatactgac aaaccaagac   600
aggtgactat aaaactgcaa tgtaaagtgt cagcttcttc tcacacctt atagtagaca   660
tctgagaacc tcactcctgt cagcatattc ttggggttga atctcaagtg atccatagaa   720
tcttagataa agcagatgaa aataggcttt tctgtcttcc taagtaaaca gcaatgaagt   780
tgagagaaag aagatattgc tggaagtcat gataaagtct atcttctgtg accatatgtt   840
tccttagaga gttttagaca ttgaccctca tctaaaaaat tgtgaaaaag gactctcacc   900
agtctgttaa tatgtatgta tatgaaagaa attactggta aacttctaag gcaggcattg   960
gtgttacttt tttttatctt tattgtgtct gtaaatgat tgtgtgtatt ttttctttga   1020
ttagacaatg agattcccaa ataaatttta ttaaagccaa aaaacccttt   1070

<210> 5795
<211> 1502
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1330)...(1020)
<223> similar to gi4877643 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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        <400> 5795
ggctgtcaat gctgaactta cagtgttaaa gttcatttat ttttctctgt ttgctttttt      60
gttgaaaatg tagctgtctt ggggtttggc ccgattttac aaggaaaatt attttctttc     120
ttcctttttt attttaaatg agaaaaaata aaaaccctca caacgtgaga ttcctttact     180
tctgcagcat aaaagcaaat gaaggtaaga aaatctcctg gtacgaaaaa tttgagtaag     240
aattctctct agaataaaca aggtccccac agatagctga aggaaagagg aagcagttca     300
gtctggcacc cggtactctt tgggaaaaca aaaagggagg cagattgcat tactgctctc     360
ttctcataga aaacggtaag tttttgtggc atggtccatt gtccaagagt gtaagaaaag     420
aagtgagttg gccattcaga tagctaaaat gcagtttcat ctgaccaaaa acccaagatt     480
atctgcacag tctctgcagt gccaggacaa tgcaggtgag agaccaggag agcagggagt     540
ggccacgctg ggctgcagaa gagtccacct ctctccggtc gggatccact gcggggggcct     600
ctgtggtgac aaactcaaac tccgtgggac acacgtcatc catgcaccca ctgccactcc     660
ctgagccact ggattcatca cttgtgtcct ggaaattgac atcattgcca ttgtaggcgt     720
tttttagttt gttggtcatc acacggagag ccataatctg ctgtctgatg aaagtgtcag     780
gccgagtgat gtccacatcc cacctcggga ttgttgatct ggttggtgag cccatcattc     840
atgatctcag gcaagtatct ggctttgctg tgcccgttcc agcattcctc ctcgttggac     900
gtgcccgctg tctagctctc gtccttgcag atagtgtagg gtaatgctga ccagaccttt     960
ttagagagct tcaatttctc ttttatgtct gtgaccagcc ggtccaagct tgtgcctgca    1020
gcagttgttg gtctttcctc aggattgtag ggcctgaaac gtgtattaaa attttcagga    1080
gctgagcggg cagatctgag ggctggagca ggtttgggct gaccacatcc ctgaaagacc    1140
tttgcagaca cctgcatgct gtttttcttgc atgttcataa tggcttcaga aatcttgaca    1200
tctatcgggt ccatgaccga ctcaatgttg aatggcccct ccagtcgctc tgccaccaag    1260
agcattgcat ctgttaaaat acaggaacat gatttatttg caaactggga gctccaggtt    1320
cccaacctgt gtttaaacat tgttaaaaca actggatgaa aaataatggt gcattcacgt    1380
ttttaaattt gctttcatat agtccaaaat gaaatagatg actgaatctt aggacgactg    1440
tattttgttt gaagattcaa aattatttta tatgtctaga accagggctg aaaataagaa    1500
aa                                                                    1502


        <210> 5796
        <211> 1143
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (502)...(822)
        <223> similar to gi2318003 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 5796
acgtcatatg catcagaata agctgtttta tttttgtatt agtagcgggc taagttatta      60
acaatcatac tttcttggat aagaacattt ttaacaagga tatcttctaa agaatgtgta     120
ttcgtatagc ataccaatac ctttttcacaa ctgtggaatc agaataattt atggcattcc     180
cgatagagga ggcagcattg tttttattga ttggaataag gaaaattttg aaggatgtat     240
atatagcttt tagttccatc tccgcttgct ttatgattcg attatttgtt tacttacttt     300
catatgggca taacatgaat ttaaatcaag cagatttaaa attttttcaac agttggaacc     360
taagctttct gaggtgaaaa atgtttctta aaaggtttgt aggaaagaga tttaacgagt     420
cttttcaatc gtttaataaa agtatacact gagcgccttc tacagagttg ggcaggtgct     480
gccgagaagc ttagcgctac gccggcctcc aagaccgcac atccgggaca ttcgagagtc     540
```

```
agtccgaggc cccgccctcc taagggcggg gccactgggc aatcggcgca ggcccttcgt    600
cgtgccccgc ctcgtctgcc ccgccagcgc gtcgagggag gggccagcga cacatggcct    660
agtaactgtc cggccgcggc gctggcttaa gccatggctg agggtagccg gattcctcag    720
gcccgggcgc tcctacagca gtgcctgcac gcccggctgc aaattcgccc agccgatggg    780
gacgtcgcgg cccagtgggt ggaggtaacg tcagcccggc agctctcgtt atcctccggc    840
gtgcggggcg gtttttttccg cgttgtctcg gtgactcgtc cgctctgtgt ctccctctga    900
gaccggcggt ccggccgcgg ggataccggg tcagcttgaa gctggccgcg gtggcctgcc    960
tggctgcgct tgtcttttcg gtccagcatc accgttcccc agcgccagtt gtagcacccg   1020
agaggaagag cgtgtctccc ttcttggggg gaccacaggt ccaaagagga ctggtgatct   1080
acgtgtgctt tttcaaggga gctgataaag aacttcttcc caaaatgtgt aatacactgt   1140
taa                                                                 1143


        <210> 5797
        <211> 1929
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1364)...(1460)
        <223> similar to gi1510153 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 5797
cagacagcga ttaggtctat ttcaaggcat tctgccagga gcacagcgac tggggggccca     60
cgtaatgagc ccacatctga gcccacggaa cccagccagg ctggcgagga cctggaaaag    120
gagaccctgc gcaagcagcg gctgcagcag ctatgaggag gacttctacg agctggtgga    180
gccggctgag gtggctgagc ggctggacct ggctgaggca ctggtcgact tcatctacca    240
gtactggaag ctgaagagga aagccaatgc caaccagccg ctgctgaccc ccaagaccga    300
cgaggtggac aacctggccc agcaggagca ggacgtcctc taccgccgcc tgaagctctt    360
cacccatctg cggcaggacc tagagagggt tagaaatctg tgctacatgg tgacaaggcg    420
cgagagaacg aaacacgcca tctgcaaact ccaggagcag atattccacc tgcagatgaa    480
acttattgaa caggatctgt gtcgagagcg gtctgggagg agagcaaagg gcaagaagag    540
tgactcgaag aggaagggct gcgagggctc caagggcagc actgagaaga aagagaaagt    600
gaaggcgggg cctgactcag tcctggggca gctggcaggc ctgtccacct cattccccat    660
cgatggcacc ttcttcaaca gctggctggc acagtcggtg cagatcacag cagagaacat    720
ggccatgagc gagtggccac tgaacaatgg gcaccgcgag gaccctgctc cagggctgct    780
gtcagaggaa ctgctgcagg acgaggagac actgctcagc ttcatgcggg acccctcgct    840
gcgacctggt gaccctgcta ggaaggccgg aggccgcacc cgcctgcctg ccaagaagaa    900
accaccacca ccaccaccgc aggacgggcc tggttcacgg acgactccag acaaagcccc    960
caagaagacc tggggccagg atgcaggcag tggcaagggg ggtcaagggc cacctaccag   1020
gaagccacca cgtcggacat cttctcactt gccgtccagc cctgcagccg gggactgtcc   1080
catcctagcc accctgaaa gcccccgcc actggcccct gagacccgg acgaggcagc   1140
ctcagtagct gctgactcag atgtccaagt gcctggccct gcagcaagcc ctaagccttt   1200
gggccggctc cggccacccc gcgagagcaa ggtaacccgg agattgccgg gtgccaggcc   1260
tgatgctggg atgggaccac cttcagctgt ggctgagagg cccaaggtca gcctgcattt   1320
tgacactgag actgatggct acttctctga tggggagatg agcgactcag atgtagaggc   1380
cgaggacggt ggggtgcagc ggggtccccg ggaggcaggg gcagaggagg tggtccgcat   1440
gggcgtactg gcctcctaac tcaccccctt ccctgtccca ggccctgccc tggtcccccc   1500
acaaggcctc agcccagtca caactgccat ttccagtctc tgctgagtgt cccagaccct   1560
```

```
cgaggctgcc actccgtcgt ggttttattt ttaatataga gagagttttg aattctacac   1620
tgttgtcttt cctctgtgct ggcctaggac attaggattc cttccacggc tccggccgct   1680
aggaccctgc caggtcccgc gcaccatccc tgccctgccc acgtggtatt gctgggctcc   1740
tggctagatg caagcaaggt ggacaagagc tcaggactcc agcccactgc cactgggtga   1800
cacagactgt cgtttgggca ttatttcatg gcagatgggc cagtccaggg cctaccccgc   1860
cttgcccca gatcccactg gggtccattt gaggggtcat gctacactcc accgatcccc   1920
aagtgtatt                                                             1929
```

```
         <400> 5798
tttcgtgcgg aggtcgcggc gagccgggcc gagcagtgag ggccctagcg gggcccgagc     60
ggggcccggg gcccctaagc cattcctgaa gtcatgggct ggccaggaca tcggtgaccc    120
gccaatccgg tatggacgac tggaagccca gcccctcat caagcccttt ggggctcgga    180
agaagcggag ctggtacctt acctggaagt ataaactgac aaaccagcgg gccctgcgga    240
gattctgtca gacaggggcc gtgcttttcc tgctggtgac tgtcattgtc aatatcaagt    300
tgatcctgga cactcggcga gccatcagtg aagccaatga agacccagag ccagagcaag    360
actatgatga ggccctaggc cgcctggagc ccccacggcg cagaggcagt ggtccccggc    420
gggtcctgga cgtagaggtg tattcaagtc gcagcaaagt atatgtggca gtggatggca    480
ccacggtgct ggaggatgag gcccgggagc agggccgggg catccatgtc attgtcctca    540
accaggccac gggccacgtg atggcaaaac gtgtgtttga cacgtactca cctcatgagg    600
atgaggccat ggtgctattc ctcaacatgg tagcgcccgg ccgagtgctc atctgcactg    660
tcaaggatga gggctccttc cacctcaagg acacagccaa ggctctgctg aggagcctgg    720
gcagccaggc tggccctgcc ctgggctgga gggacacatg ggccttcgtg ggacgaaaag    780
gaggtcctgt cttcggggag aaacattcta aatcacctgc cctctcttcc tggggggacc    840
cagtcctgct gaagacagat gtgccattga gctcagcaga agaggcagag tgccactggg    900
cagacacaga gctgaaccgt cgccgccggc gcttctgcag caaagttgag ggctatggaa    960
gtgtatgcag ctgcaaggac cccacaccca tcgagttcag ccctgaccca ctcccagaca   1020
acaaggtcct caatgtgcct gtggctgtca ttgcagggaa ccgacccaat tacctgtaca   1080
ggatgctgcg ctctctgctt tcagcccagg gggtgtctcc tcagatgata acagttttca   1140
ttgacggcta ctatgaggaa cccatggatg tggtggcact gtttggtctg aggggcatcc   1200
agcatactcc catcagcatc aagaatgccc gcgtgtctca gcactacaag gccagcctca   1260
ctgccacttt caacctgttt ccggaggcca gtttgctgt ggttctggaa gaggacctgg   1320
acattgctgt ggattttttc agtttcctga gccaatccat ccacctactg gaggaggatg   1380
acagcctgta ctgcatctct gcctggaatg accaggggta tgaacacacg ctgaggacc   1440
cagcactact gtaccgtgtg gagaccatgc ctgggctggg ctgggtgctc aggaggtcct   1500
tgtacaagga ggagcttgag cccaagtggc ctacaccgga aaagctctgg gattgggaca   1560
tgtggatgcg gatgcctgaa caacgccggg gccgagagtg catcatccct gacgtttccc   1620
gatcctacca ctttggcatc gtcggcctca acatgaatgg ctactttcac gaggcctact   1680
tcaagaagca caagttcaac acggttccag gtgtccagct caggaatgtg gacagtctga   1740
agaaagaagc ttatgaagtg gaagttcaca ggctgctcag tgaggctgag gttctggacc   1800
```

```
acagcaagaa cccttgtgaa gactctttcc tgccagacac agagggccac acctacgtgg   1860
cctttattcg aatggagaaa gatgatgact tcaccacctg gacccagctt gccaagtgcc   1920
tccatatctg ggacctggat gtgcgtggca accatcgggg cctgtggaga ttgtttcgga   1980
agaagaacca cttcctggtg gtgggggtcc cggcttcccc ctactcagtg aagaagccac   2040
cctcagtcac cccaattttc ctggagccac ccccaaagga ggagggagcc ccaggagccc   2100
cagaacagac atgagacctc ctccaggacc ctgcggggct gggtactgtg tacccccagg   2160
ctggctagcc cttccctcca tcctgtagga ttttgtagat gctggtaggg gctgggggcta  2220
ccttgttttt aacatgagac ttaattacta actccaaggg gagggttccc ctgctccaac   2280
accccgttcc tgagttaaaa gtctatttat ttacttcctt gttggagaag ggcaggagag   2340
tacctgggaa tcattacgat ccctagcagc tcatcctgcc ctttgaatac cctcactttc   2400
caggcctggc tcagaatcta acctatttat tgactgtcct gagggccttg aaaacaggcc   2460
gaacctggag ggcctggatt tcttttttggg ctggaatgct gccctgaggg tggggctggc  2520
tcttactcag gaaactgctg tgcccaaccc atggacaggc ccagctgggg cccacatgct   2580
gacacagact cactcagaga cccttagaca ctggaccagg cctcctctca gccttctctt   2640
tgtccagatt tccaaagctg gataagttgg tcattgatta aaaaggaga agccctctgg    2700
gaaaaaaaaa a                                                         2711
```


<210> 5799
<211> 1760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1672)...(144)
<223> similar to gi5777952 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

<400> 5799
```
tttttttttt ttgagcggtt ttcttaagtg tctttaatac tccactcagg gcagtcccct     60
ccctctactg agaggctctt ggctctggcc ccaagagcag ctggaaggcc ctggcctgaa    120
cttcaaccaa cttgaatgtc caaggctgtg tgtgccacgc tccctggctc tggtacgtgg    180
tatgcaagca cctctcgggc cttgggggag tttgatcccc tccagccact cctgggtaca    240
gctcctgcac gtgtgcacct ggactccgga cgccgcacag ggatgtcagc gtaaatgcct    300
tccattctgc cgcagcaggg gccttatccg catgtccgtc ttgaatcttg ggctttggcc    360
tcttgccatt ttaagcatcc tccagcacag gcgaggacct ccacaaagtg gaattgggaa    420
atttgccctt cttaagcttt aggatcatgt tctggatgtt tcgaaagcca taggctgcag    480
caaagcgtaa caccacctct ccgttcttct caagggtgac ctcttggaag tctttgtttc    540
tcagggctcg gtaagtgacc tcctccacat ccctccgttg aacagctcct tggccgcatg    600
tctgaagatg tgtgccaggt gcccgtctga gctggctcca tcatgacgcg tcactttgtc    660
ctccttcaag tctccaaaca gagtgtcgac ggcagcatct ctcactgaga ggtcaccctt    720
gctcccatta atttgaagca aatttcaacc ttgatgttaa acaacgcaag tcaagcgccc    780
ccgggaagcc atgcaaagcc aggggggaagg gctttccctg aagagcctcc cagcttcttg   840
tcattaacca aggggccacc aatgaccgtg gaaaaatctt ctctggagac aaggttctgc   900
tgtctggcgg aaataatcct tcaccaaaga gcccatgacc tgctggggggg actttggcgg   960
tgccaagaag gtgggccagt gatggggcga ccccagcaac ccgctccggc gtatcggacc   1020
ccagcccagg acaggcagag gtcagcatgg ggcagggtgc gttccctccc tcactgtgct   1080
ggcgaataac gacgcacgaa ttctttttttg actctcccag gatactaaaa tccgcagcta   1140
tcgtcgtatc aaatacatag tgcaccccaa gacttttgag gaaaccacag agtcttctgg   1200
atgcatcagt tacactgagg ttgaatttag cagcaaaata aggcaaagat tgaggacaca   1260
```
```

```
cagacactaa cccagctttg tgctttgagg tatcacattt cttgttaagg ttcagaacgc    1320
ggaagaagtc cttggcattt tgctgggaaa gttggactcc ttcctctgca gtcatacagc    1380
tgtcacatgc caggcagtcg ctcaaaaata tcttggcatc agccaacttg tggaattctc    1440
ccttctgtag tcccagctac tagggaggct gaggcaggag aatcacttga gcctcagagg    1500
tcaaggctgc ggtgagccat acagtgagcc actgcactcc agcctgggtg acagtgagac    1560
cctctccatt ttcctgggct ggactcggtg catcggctga cacattctct tggtcatcag    1620
tttttgtttt cttactacat tccttgcgcg tgcagtgctc acacttcatc tggagcgcgg    1680
cgggcgggag gccgggcgcc tcagcctcag ggaagcaccg ggagactggg acaccactgc    1740
ccgccgcccg cggccctttg                                                 1760
```


<210> 5800
<211> 2194
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (75)...(1280)
<223> similar to gi5442036 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5800
```
tttcgtctcc cctcccttcc ccggccccgg ctctggcccc ggcccattcg ctgttgggtc      60
ttctgctagg gaggatgtcg ggttcgtcgc tgcccagcgc cctggccctc tcgctgttgc     120
tggtctctgg ctccctcctc ccagggccag gcgccgctca gaacgctggg tttgtcaagt     180
cgcccatgtc agaaactaag ctcacggggg acgcctttga gctgtactgt gacgtggtcg     240
ggagccccac gccagagatc cagtggtggt acgcagaagt caaccgggca gagtctttca     300
gacagctgtg ggacggtgct cggaagcgcc gtgtcaccgt aaacaccgcc tacgggtcaa     360
acggcgtgag tgtgctgaga ataacccggc tcaccttgga ggactctggg acttacgagt     420
gcagggccag caacgacccc aagaggaatg acttgaggca aaacccctcc ataacatgga     480
ttcgagccca ggccaccata agcgtccttc agaagccaag gattgtcacc agtgaagagg     540
tcattattcg agacagccct gttctccctg tcaccctgca gtgtaacctc acctccaggc     600
tctcacaccc ttacatacag ctactggaca aaagaatggg ggtggaactg aagtgcaact     660
cgtaagaatg ccagcaacat ggaagtacag gatcaaataa gccgagagct gaggattcag     720
gcgaatacca ctgcgtatta ttcactttgt taagcggctc ctaaagcaaa cgccaccatt     780
gaagtgaaag ccgctcctga catcactggc cataaacgga gtgagaacaa gaatgaaggg     840
caggatgcca ctatgtattg caagtcagtt ggctaccccc acccagactg gatatggcgc     900
aagaaggaga acgggatgcc catggacatt gtcaatacct ttggccgctt cttcatcatc     960
aacaaggaaa attacactga gttgaacatt gtgaacctgc agatcacgga agaccctggc    1020
gagtatgaat gtaatgccac caacgccatt ggctccgcct ctgttgtcac tgtcctcagg    1080
gtgcggagcc acctggcccc actctggcct ttcttgggaa ttctggctga aattatcatc    1140
cttgtggtga tcattgttgt gtatgagaag aggaagaggc cagatgaggt tcctgacgat    1200
gatgaaccag ctggaccaat gaaaaccaac tctaccaaca atcacaaaga taaaaacttg    1260
cgccagagaa acacaaatta agtactgctt acaatatctt taggttcctg aaactggtgg    1320
caacatgacc tgctaaaatt ttctgcttgg acctctttgg ttctctcccc tttcaagtga    1380
gcaacaccac aatgactgtc taaagcatgc cttatttagc ctctcctgta agggtgatct    1440
agccaggtac attttaaaca atgcttcagt gtagaaggtg taaactattt tgggcttgat    1500
gtgctgtgaa tgttgctttt tttttttcctt tgttaaaata tttaaataaa agtgaaaagg    1560
tcctctgagg atcaaatcat gcatgcgcca ttttttactt aatgcagctg ttaaattggc    1620
aaagctctaa aatgcactgc tgccatctag ggatacactt ttgtaaagta cagcaaaacc    1680
```

```
tacagatata tacagtatat aaatatatat atatatatat ttatattttt gggggtggga      1740
gaaatccaaa ataaagtaaa tgcttgtttc atttttaagc tgctgatatt cattccttat      1800
tgtatgttgt cagatgagga aattgtgcag ttctggtaca taaagatgag taatataaac      1860
tgaaatctat aattttaagg gcttaacctg tgactttaat aagctggaac agtccactga      1920
atgggtataa tgaattgcag tatatacgta tgattgcttt ttaagtgatt atcttttctt      1980
ctgttaagtc atgtaaattc ataaatcctt ttgcactgat gtgttgaacc ttattcttgt      2040
acattcattc aatcaaggca aacttttata atttttcttt tgtttccaat gaccttgaaa      2100
tgttatagca tggtaatatt ctatgcaact atagttatac tttttggttt gacactgtat      2160
tttttcacat tgatttactg gttgatgata gatt                                  2194
```

<210> 5801
<211> 694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (60)...(6)
<223> similar to gi1174092 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5801
```
cattaatttc tgtctttatg ccaatgtcac actgtcttga gtacttcctt tgtaataggt        60
tttgaaacca ggaattgtgt gacttctaca atttcattct tctttatcaa gcatgttttg       120
gctgttttgg gtcctttgaa attacatatg aatttcatca gcttgtcagc ttgtcagctt       180
gatcagcttg tcagcttctg caaagaagcc agcttggagt ttggtagggg ttgcattgca       240
tctccagatg aatttgggga atgtctccat attaacaata tttagtcttc ctatccttga       300
acatgggata tattttcatt tatctggctt cagttctttc aacaacattt tgtagttttc       360
actgtacaat gatctggtct tttgctttcc aaaaccagaa actcttttaa gttgaaggtt       420
tcttaagact tttggggagg cagttctgct aaacaaacag aaaagagaac atttggttag       480
aaaaaaacag agataacagg aagattaatt attttaataa taaagcaagg aaccaattta       540
ttaaaatttt ttagaatatg ctttgtaacc ataatgcttg aatctgttat acatttgtct       600
cagactggaa gttccccttt gtgacttcaa gatacttgag aaacaatcag taatcaagta       660
atgggttgct gggtatagac aaacaacaca gagg                                   694
```

<210> 5802
<211> 1372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (896)...(1280)
<223> similar to gi2992628 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
        <400> 5802
gggccgcctg  dacacacagg  tcccctggca  caggtaacaa  cagaggaccc  tcagggagag      60
aaggctccca  gcttcctcta  caccctgaga  accgctgccg  agagacccaa  aagacacctg     120
ggcatcagtg  ctgcagccct  accttggcct  ccaggtagat  gctagtggag  ggcgcccgcc     180
tggcgacaaa  ggaagaggca  ggcagcaaga  gacagcgcgc  agatgacgaa  cagggagtcg     240
ctcaccagga  cgcggacaag  cagcagggcc  cagggctgtg  ccgccgcgcc  gcatgggaga     300
gcacagcaca  cagcacgttc  accagcagaa  agagcagcga  ggcccccaca  aaggcccctc     360
ggacagcgag  caagcctcgg  ctcatcttcg  ggcccgacgc  ttcactttgg  ccttgaacac     420
cacctggggc  aaagtagagg  ttcataaggc  gtcaaggtga  agaactgcag  gcagacgggg     480
cagcagtaga  gaagccagaa  gggcaaaggg  ccccagggtt  gtttggcgcg  gggagtatct     540
tcggaaatta  gaaggagaaa  aaggttgtta  cgcaaggggg  ccccagaagc  agacagaggg     600
ccaggaacac  ccgtctgata  agctgagacg  cttgtgcccc  atacagaagc  accagccaga     660
gctgggcata  gacggagaag  aagagcaggg  catacaggt  ggtgtaggca  gctgtcagcc      720
ccaggtcac   agcaggtggc  agcgcaggca  ccaagcccgg  caagcaggca  accaggccca     780
gacaggttac  tctccatgtc  aagggaggga  ggcctgaatc  ccggagacag  acaaggaggg     840
actgtcggcg  ggaccaggga  aataaatacg  gaggggtggg  aattgcaggg  tgcagagagg     900
gagatggggc  gctcaggagg  aaagaagttg  tggctgacag  gcccccctcc  tcaacagaga     960
gacccttgcc  cttggggaac  acaggcagcc  tgggccccag  gcccctcact  caggggcatg    1020
gaagggcagt  ctcttttctc  caggacagac  cggatagggg  ttgggggtgt  ctcctccctg    1080
ggcctacccc  agagccaagg  atggggggat  gcagaggccc  aaggagagga  ctccctggcc    1140
tcggtcgttc  atgtcgtcct  gggtggaggg  ggaggctctc  tctcctccaa  taatgcggat    1200
ggggagggcc  tctgcctcct  gtcctcgtaa  ttctcgaaag  ctgcccccgc  cccaccctcc    1260
cccaccgcgt  ccacgctcca  gcctcaaggg  gagggaggag  gcggacgcca  ggtcctcagg    1320
ccgctgatgg  gagagccggc  tcaggtcgtg  gggacccggg  gctccgacga  aa            1372



        <210> 5803
        <211> 1345
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1322)...(238)
        <223> similar to gi184848 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters



        <400> 5803
tttttttttt  ttcacaggtg  caaagattca  cttttttattt  attcattctc  ctccaacatt     60
tagcataatt  aaagccaagg  gactaggagg  ggggtgaggt  gaaagatgag  ctggaggacc     120
cgcaataggg  gtaggtcccc  ctgtggaaaa  aggttcaaaa  ggcccaaagg  atgggaaggg     180
ggtcagcgct  ggaactagag  gagcaggtgg  gggcaacttc  ctcccctcc   taaaaactct     240
cccctgttg   aaacctcttt  gtgaacgggc  cgaacctcag  gcccctgaat  gggtgaactt     300
ccgcaggccg  taagagtttg  tgtttcctcc  gtaggtctgc  tttgctcagc  gtcagggtg      360
ctgcttgagg  gctggtaggg  tgctgttcct  tgtctagtcc  tgctctgttg  acactctttc     420
ctgggggagt  ttacccccat  ttggaagggc  gttaatccac  ccttccactg  gtactttttg     480
gcctcttttt  ggggatagag  gttattcagc  agggcacaca  acagaggcag  ttccagattt     540
caactgctca  tcagatggcg  ggaagatgaa  gacagatggt  gcagccacag  ttcgtttgat     600
```

```
ctccaccttg gtcccctggc caaaagtgta caggtgaatc agcatactgc tgacagtaat      660
aaactgcaaa atcttcaggc tccagtctgc tgatggtgag agtgaagtct gtcccagacc      720
cactgccact gaacctgtct gggatgccag tggccctgct ggatgcatca tagatgagga      780
gcctgggagc ctggccaggt ttctgttggt accaggctaa gtacttccta ctaatagtct      840
gactggccct gcaggagagg gtggctcttt cccctggaga caaagacagg gtggctggag      900
actgagtcaa cacaatttct ccggtggtat gtttgatctc cagcttggtc cctccgccaa      960
aagtgtacgg gggaggccag ttggtacgct gctgacagta ataaactgca aaatcttcag     1020
gctctaggct gctgatggtg agagtgaagt ctgtcccaga cccactgcca ctgaacctgt     1080
ctgggatgcc agtggccctg ttggatgcat catagatgag gagcctggga gcctggccag     1140
gtttctgctg gtaccaggct aagtagctgc tgctaacact ctgactggcc ctgcaggaga     1200
gggtggctct ttcccctgga gacaaagaca gggtggctgg agactgtgtc aacacaattt     1260
ctccgggggt atctgggagc cagagtagca ggaggaagag aagctgagct ggggcttcca     1320
tggttccctc tgggtcctaa ctgag                                           1345


        <210> 5804
        <211> 1233
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (795)...(1062)
        <223> similar to gi529138 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters


        <400> 5804
aggggttttt ttccaaggca attaatttgg gtaaccccag ggttttttcca ttcccgcggt       60
tttaaaacgc gggcccggga atttaattta ggggccccat taaaaaaatt tttcctttgc      120
aacccggggg agttaaattt ggttctttta aaagggcgcc cctttttttt tttttttttt      180
tgatggttaa aaaaatttgg gttttattgt ttttgctaaa taatactaaa aaaaaaattt      240
cattttgaag gcagggcttg aattatttaa tttgatccat ttatttaatt aaaaaaaaaa      300
ggaagggggaa agagatcatg gccaaaaaaa tagtagttaa cccccacccc accccaaag      360
ctctagccag tcatgtgagc atcacccaca tcccactcag tgcctgatat tcggatggtg      420
gcatactctg ccccaggaga ctgcctgaag gcacggggca atgggtgcca attttagctc      480
tcagcaggtt agtcaaccag acaaactggt gggctaaagt ccagaaattc tttccaggtt      540
ttctgctcat tggctgagca catacaaact gtcataagcc tgtaaaattt aaggggagtt      600
ggggtggggc gtaagagcaa aaggacagca ggagaagaga aattacgggt cacccaagtt      660
tttcctgggc tagtggctct ggatatagat ttaaagagag gtcagagtaa atggactcca      720
ggtttcttat caaagaaaac tatccctcaa tgaggagctg agatgtgcca tgcaagagag      780
ttcttcctgc agaggcacag gagaaagggc agctgactct ctcatgtgga gagagtggcg      840
aggaaggtct tctagtacca tgaagtaaga caggcagagg gagaatcctg aggtttgggc      900
caaatgtgag actggtacac acacagttaa agactaaaaa gccatcagga accctcaaag      960
ccaaattcta tctgcacact ggctctacaa agttcgcagc aagaatctct tgcaccaagt     1020
caagttagtg gcctggctat gatggatggt ggggagggca atacattttt attttcagag     1080
ggatgaggtg ggaagaacag ccatgatcta gtaaaaagag acctgcaaga agcagaaaat     1140
atttagagaa cattttaata tatattttca tatatatatt taaagttaag aaaaataaaa     1200
ctaattcaag ccatgccctg tgcaaaaaaa aaa                                   1233
```

<210> 5805
<211> 2173
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1848)...(676)
<223> similar to gi3907579 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5805
gctgttgcat cggctgtcat gaattcggca cgagctcatg ctgccagatt atctgggtgt   60
ggtggcacta gaatggagat acttcatggg aataatactc attgttcttg accccactgg   120
gtcagtgctg accctaccac cacccactct gcagcagcac ccagatgcta gccttgtaca   180
gaaagcccca gcatctcttt acagtcaatg agctctctct ttattgaggt atttcaaata   240
tacaaacact tcagagcttt ttagatatgt gaaggtccaa tttagtgaag cggattaaca   300
aaacatgatt ctaaaagcct gcctcctcta gaccaaggcc atgtaaaaga tttatgtacc   360
aatcagcatc ttttcctttt aataatcttc aggatgttgt gttgggtccc cagattccca   420
tttgattttc ttgcatcatt ttctcagact gtttgcttcc ttgcttcctc cccagtgagt   480
gccttgggca ttttgtgtgt gcagatagag aagtacagag ttactgcagg agccctcagg   540
agtgagacaa caggaaatga caaagtaata cagagctgca gtagctggga tgggtgagga   600
ccccacttgg gatgccccat ggtagagtac tggtgccttg ggagggtaga actgctcagg   660
tctagcacgc ctcactgaag attggattca cctgctgggt gactcggatg aaggtagttc   720
tcctgctcaa ctctttgagc ttagctgctc ccacataggt acacgtagag cggatccctc   780
ctaggatgtc tcggatggta tgttccacat ctcctttaaa aggaacttcc actgtctttc   840
cctctgaggc tctgtactca gccacgcccc cagcatactt cttacatggc caatttaaga   900
actcattcca tagaagagct tgtacttctt gccatccctc tcgatgagct caccacctga   960
ctcactgtgc ccagccagca tgccacccag catcacgaag tcagctcctg ccccaaaagc   1020
cttggccaca tccccaggac agctgcaacc tccatctgaa atgatgtggc ctttgaggcc   1080
atgagcagca tctgcacact ccatcactgc gctgagctgt ggatacccca ctccagtttt   1140
cttccgagta gtacacacag agcctggccc aattcccact ttgatgatgt cagccccaga   1200
aaggatgagc tcttctacca tctctcctgt taccacattc cctgccatga tggtgtgctg   1260
ggggaagcgc ttccgtacat cttttacaaa ttcaacaaag tgttcagagt agccatttgc   1320
cacatccagg catatatact tcacctgggg aatagcttcc aggatctgtt ccagctgctc   1380
aaagtcagaa gagcctgtgc ctgagctggc agccagatgc tcaagacagt caggattctg   1440
gccagcaaac tcttgccact gaacgaggct atagtgctta tggacagcag tgaagagaga   1500
gaacttctca gcaacaagta tagaggcagg taatagtact gacaggagca gcatcttcca   1560
tttcaaagtg aacaacttgt atataagaaa aacacatccc atttggggca catcccagaa   1620
actcccagga acctaggact tacagagaac cttggccatc tcaaaggtgc ccacagtatc   1680
catattggca gcaatgatgg gaaccccaga gtatgtctgc tttgagttcc gaaatgaaaa   1740
ggatcttgtg agatccacct cacttcgaga cttaagggta ctgcgtttgg gcctcaaaag   1800
gacatccttg aagtccagtt tcacatcgtt gtcaatatga ggcatggcgc ttagcctcgg   1860
ggtagcgatg aatctgaggg ctggaaggca ggaagtcata aggaccaatc ttcccctggg   1920
ctttaacgcc ctgttacggc tggtggcctc tcttcgctta agttgtggaa ggtcgggcaa   1980
aggccgaagt gtggtccctg aagcctgtca cctcgaccca tcccgtggct gcgattaccc   2040
tagggctcca tcccaggtac tgtttgttgg ggaggagagc tgggaaaggg ttgtgagaga   2100
ccctgacggt gcattcctta ccccgctaca cttccttctt ctacccctgc aaagagcaat   2160
ggggcaagag gct   2173

```
<210> 5806
<211> 1849
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1462)...(349)
<223> similar to gi3387962 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 5806
tttttttttt taaagataaa attaatttat ttgacttcac aacttcattg ggccacacag      60
gggcccacaa gtcctagaag cacaaccttg tggaagtggg ctggggaggc cagttctctg     120
gactgcctgc tcccttgtcc agagctgcct tgagccaggt ccctcctgac cccatcatcc     180
tgttcccata tgcaagggct gctcaggtcc acctgcaata aacccaggcc tgcctctggc     240
agcagaggac agggcctcgt gggtggcagc agcactggtc ctcgtggctg tgggtgtggg     300
tgggtgggta ggtaggtggg aaggagggca ggcaggaggg tgtggttcag tgcagagagc     360
tgctgttctg ctcttcaaag gccatcttgc ccagaagctg gctgtccaac tccaccccac     420
ttacaggcag ctggaagaag ttcatttcag ctgctaaggc tgccatggca gaagggtcct     480
ggccaaactg agctcgcaac atcatgtcca ttttctccag cctcctcttg agccgcttgg     540
cctctcgctc tcggatgagc cgggcctgcc gcttttccgg ggtttcaatg gcccgcttca     600
gcctcatggc ctcccgatcc cgctgcagcc ggcgtgcccg ctgctcgtct gtctcctgca     660
tgcgctgcaa gcgcttggct tcacggtccc tcatgcgcct cacctcccgc tcctcggggg     720
tctcattgtc ccgccggctc ttcttggccg tgcgctctcg ttccagccgc tgcagccgta     780
cttccaaagg ctcattctgt cgacgtagag cccacttgcg tacactggga gtctgggctt     840
ccagcagttt acggtaggca gcacagttgt tgcacacaag cagaattcca gcagggtaca     900
ctggaggact aaaggcaata tccttcccct cagcactgga gggaccctca ttgtggactg     960
tgggtaggga ttccatattt agtacttcag gaagtttctc actgttaaaa gtggcatggc    1020
tggtgaaccg ggctccacac acagcacagt tagatcgctg gtcctccgag tggattaaga    1080
ggtggcgacc caatgacccc ggggagctaa gggcccggcc acagacagga mcacatgtag    1140
ctcttggcgc tcaccactgc tgcagtgtgc tggtacacgt gagcaatcaa ctgctcccgg    1200
ctcccgcagt ctagctggca gaggggacac tggcagagtt caagcaaggg gtcagaattc    1260
aaattccctg tgacctcgtg ctcttaccct tcgttcccac caacaggctg ttctgtattt    1320
tctaactctt tctccaattt ggacaacccc tcccatcttc cctctgaagt gtggggaaaa    1380
agattcatct tgtgtcgtct ccctccttca tcaccctcaa ctgtcacagt gaaactttta    1440
tttggatttg tctgtttccc gaacgggaca tgtttccctg atgcaagagc tctggtcttt    1500
ccccagtttc acgactggat atgttactac ctccttgcaa gatgctaacc tccagctctg    1560
gtgcagttcc cacggagcaa agcaaactcg actgaatcca agtgatctgt atctgccaaa    1620
aaggagagga caagaaagct ggtcacttag ccgcctggct gttcacctga cccctggggt    1680
tgggtctggg gcgtgtctaa tcagccgaga tggtccctct gcttcttcaa gcatgagccc    1740
aggtaaattc ccaggaatta ccaagacaag agcctgacaa agagccggag gtcttccgag    1800
gcggctcaga caaacccttaa gacaacacaa tctccgaaat ctaaattta                1849



<210> 5807
<211> 1278
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> (219)...(889)
<223> similar to gi2384956 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5807
ggcgcctgac ggaagcggcg gcagcgggca gcggctctcg ggctgcaggc tgggcagggt   60
cccctcccac gctcctgccg ctgtctccca cgtcccccag gtgcgcggcc accatggcgt   120
ccagcgacga ggacggcacc aacggcggcg cctcggaggc cggcgaggac cgggaggctc   180
ccggcaagcg gaggcgcctg gggttcttgg ccaccgcctg gctcaccttc tacgacatcg   240
ccatgaccgc ggggtggttg gttctagcta ttgccatggt acgtttttat atggaaaaag   300
gaacacacag aggtttatat aaaagtattc agaagacact taaatttttc cagacatttg   360
ccttgcttga gatagttcac tgtttaattg gaattgtacc tacttctgtg attgtgactg   420
gggtccaagt gagttcaaga atctttatgg tgtggctcat tactcacagt ataaaaccaa   480
tccagaatga agagagtgtg gtgctttttc tggtcgcgtg gactgtgaca gagatcactc   540
gctattcctt ctacacattc agccttcttg accacttgcc atacttcatt aaatgggcca   600
gatataattt ttttatcatc ttatatcctg ttggagttgc tggtgaactt cttacaatat   660
acgctgcctt gccgcatgtg aagaaaacag gaatgttttc aataagactt cctaacaaat   720
acaatgtctc ttttgactac tattattttc ttcttataac catggcatca tatatacctt   780
tgtttccaca actctatttt catatgttac gtcaaagaag aaaggtgctt catggagagg   840
tgattgtaga aaaggatgat taaatgatct ctgcaaacaa ggtgcttttt ccagaataac   900
caagattacc tgagtccaag ttttaataac aagaataaac aactttgtga aatatcatgg   960
attgtatggt ttcttaaaat ataacttgag acacgtggta tttgccagta tttgtgttcc   1020
tcttgtgcca gatctatttt ttacaagaac tgtgcaaata tcagtaactt ttgggtaggt   1080
attgattatt aggaaaataa ttaggtgtat tatctggggg aaaaaaaaac ttttgctaag   1140
tttttttttga aacatgctca aagcttttta aatcaatatt tagaaattag tttaacgatt   1200
tactattata cctgctagtg atatttatgt gatatctata aatgaaaata aatgcaaaat   1260
tataccaaaa aaaaaaaa   1278

<210> 5808
<211> 826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (440)...(743)
<223> similar to gi3041844 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5808
tttcgggccc ggaaagattt aagtttcgtg aatgcatacg caagactcgg aggtagttcc   60
ggttccggcg tggccacttt cgttggtggt gttcagttgt ggcggttgct ggtcagtaac   120
agccaagatg ctgcggaatc tgctggtgag gagcttctca tcttgcatcc atgatggggg   180
cgagggagtg gagaggaggc tgaggcacca cgacagaaaa ccctcacctg ggaggggtgc   240

```
cgaaggcggc taatgaagtc accttgattc gtgtcctttt tccctgacct tactttccct      300
tccgtctatt cctctcgccc caggccgtta ctgggtagat gtaaggagtg gagaggcagg      360
ggaagtgacc agagactcgt gggttagacc cgtcttgggt tcttagtcac cacctctaac      420
cctgtcggtc attgatgagg ctcttcgtca gattgggcag aggacgataa gcactgcttc      480
ccgcaggcat tttaaaaata aagttccgga gaagcaaaaa ctgttccagg aggatgatga      540
aattccactg tatctaaagg gtggggtagc tgatgccctc ctgtatagag ccaccatgat      600
tcttacagtt ggtggaacag catatgccat atatgagctg gctgtggctt catttcccaa      660
gaagcaggag tgacttcagt catcccagca atcgcttggt tcagtttcat tcagctctct      720
atggaccagt aatctgataa ataaccgagc tcttctttgg ggatcaatat ttattgactt      780
gtagtaactg ccaccaataa agcagtcttt accatgaaaa aaaaaa                     826
```

<210> 5809
<211> 2568
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (317)...(2182)
<223> similar to gi4680645 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5809
```
ggcacgaggc gccctgcaga ttgtctcttg ttgcgtaagt ttttttgacc gtcactcgtg       60
tcagcttcaa agtcagatag attttttctcc cagcatgttc tacttccgag gctgtggccg      120
ttgggtcgcg gtttccttca ccaagcagca atttccgttg gcacggttga gcagtgacag      180
cgcggcgccc cggactccgc acttcgacgt gatagtcatt ggtggaggac atgccgggac      240
tgaggcagcc accgccgccg ctcggtgcgg ctctcggact ctgctcctca ctcaccgcgt      300
ggacacgatc ggtcagatgt catgtaatcc ttcctttggt ggcatcggaa agggacattt      360
aatgagggaa gtagatgcct tggatggcct gtgttctcgc atctgtgacc agtctggtgt      420
acattataaa gtattaaacc ggcgtaaggg accagctgtg tggggtctga gagctcagat      480
tgataggaaa ctctataaac agaacatgca gaaagaaatc ttgaatacac cactgcttac      540
tgttcaggag ggagctgtag aagatcttat tcttacagaa ccagagcctg aacacactgg      600
gaaatgccgt gtcagtgggg ttgtttttggt ggatggaagc acagtatatg cagagagtgt      660
gattctgact actgggacat ttctgagagg catgattgta attggattgg agacgcatcc      720
agcaggacgt ttaggggatc agccttctat aggattggct cagacactgg agaagttagg      780
gtttgtggtg ggaaggttga agactgggac tccaccccga attgccaaag agtccattaa      840
tttcagtatt ctaaacaagc atataccgga caatccatcc ataccattca gctttaccaa      900
tgagacagta tggattaagc cagaagatca gctgccatgt tacttgactc acaccaaccc      960
tagagtggat gagattgtcc ttaagaacct tcaacttaat agtcatgtta aagaaacgac     1020
aagaggacct cgatactgac cctccattga atcaaaagtt ttgcgttttc caaaccgtct     1080
acatcaggtt tggttggaac ctgaaggaat ggattctgac cttatctacc cacaggggtt     1140
atctatgacg ctaccagctg agttacaaga gaaaatgatc acatgcatca gaggcttgga     1200
gaaagctaaa gtgattcagc caggctacgg tgttcagtat gattacttag atccccgtca     1260
gatcacccct tccttggaga ctcatttggt tcaacgactc ttctttgctg gacagatcaa     1320
tggcaccact ggttatgagg aagctgcagc tcaatgctct gtagggtgt gatagccgga      1380
atcaacgcca gtcttcgggt cagtcgcaag cctccctttg tggttagccg aacagaaggt     1440
tacataggag tcttgattga tgacctcact actctgggca ccagtgaacc ataccgcatg     1500
tttaccagcc gagtagagtt ccgtttgtca ctgcgccctg ataatgctga cagccggctc     1560
acactgcgag ggtataaaga cgctggctgt gtgtcccaac aacgatatga aagagcttgt     1620
```

4351

```
tggatgaagt cttctttaaa agaaggcatt tctgtgttga aatctattga gttttttgagc    1680
tctaaatgga aaaaattaat cccagaggct tctataagta ctagtagaag tctgcctgtc    1740
agagctctcg atgttctgaa gtatgaggaa gttgacatgg attcattagc caaggctgtt    1800
ccagagccct tgaagaagta tactaaatgt aaagagctgg ctgaaagact gaaaatagaa    1860
gccacttatg aatcagtgtt gttccatcaa ctacaagaaa taaagggagt tcagcaagat    1920
gaagctctcc aactgccaaa agacctagat tatttgacta tcagggatgt gtctttgtcc    1980
catgaagttc gagagaaact acattttagt cgtccacaga cgatcggggc tgctagtcgc    2040
atacccggag taacacctgc cgccatcatc aatctgctga gatttgtgaa gaccactcaa    2100
cgaagacagt cggctatgaa tgaatcatcc aagactgatc aatacttatg tgatgcagac    2160
agacttcaag agagagagtt atagctttca attcataaaa gattttttaa agagccatat    2220
aaataatttg gatcaatacc aacagtatag ataaaagaat tatttagcac atgttaaaat    2280
agcctttatt aggttaccta tgggtttgcc cattaatttc ctgagtggga cagaaattat    2340
aattgtgctt tttcgtgtat atgaaaaaac tagtcgtaaa caatttgtac tctttctttta    2400
aggagctgta atacaaataa ctttgtgcag tgttcatcaa agagagagac agtgaaccta    2460
aaactgaacc tggaataaaa ctcaacatgc agatttgcct actcataggg actttgccta    2520
ttaagtctac caaattaaaa gtcttatcat tcagaaaaaa aaaaaaaa                2568
```

<210> 5810
<211> 1409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (261)...(1103)
<223> similar to gi556868 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5810
```
cccacgcgtc cgggttggtg cttcctgttc gcagctgcgg caacagcgtc ttgccctgtc      60
gccacgctgg agtccactgc aacctccgca tcctgggttc aagcaattct cctgcctcag     120
cctcccaagt agctgggact acgggagaag atggtataaa ctggtccatc agtgacaaag     180
acattgaggc ccagatagct aataaccgaa cacctggaag atggacccag cggtactatt     240
cagccaacaa aaacattatc tgtagaaatt gtgacaaacg tggtcattta tcaaaaaact     300
gccccttacc acgaaaagtt cgtcgctgct tcctgtgctc caggagagga catctcctgt     360
attcctgtcc agcccccctt tgcgaatact gtcctgtgcc taagatgttg gaccactcat     420
gtcttttcag acattcctgg gataaacagt gtgaccgatg tcatatgcta ggccactata     480
cagatgcttg cacagaaatc tggaggcagt atcacctaac gaccaaacct ggaccaccca     540
aaaagccgaa gacccccttca agaccatcag ccttagcata ttgctatcac tgcgcgcaaa     600
aaggccatta tggacacgaa tgtccagaaa gagaagtgta tgacccgtct ccagtatctc     660
cattcatctg ctactatgat gacaaatatg aaattcagga gagagaaaag agactaaaac     720
aaaaaataaa agtactcaag aaaaatgggg ttatcccaga gccatccaag ctaccttata     780
taaaagcagc aaatgagaac ccccaccatg atataaggaa gggccgtgcc tcatggaaaa     840
gcaacaggtg gcctcaagaa aataaagaaa cacaaaaaga aatgaagaac aagaatagaa     900
actgggagaa gcacaggaag gctgacagac atcgtgaagt ggatgaggat tttcccaggg     960
gccccaaaac ctactcttct cctggcagtt ttaaaaccca gaagccttct aagccctttc    1020
accgttcatc acattaccac acgtcaagag aagacaagtc tcccaaggaa ggcaagaggg    1080
gcaagcagaa gaaaaaggag aggtgctggg aagatgatga caatgataac ttatttctta    1140
ttaagcagag aaaaaaaaag tcttaagccg tcaggcagcc tctgatgtgg cttttcattg    1200
ttcatttggc ctttgtgtct ataaccttct ggcactgtgt ttattatcta tgattaaata    1260
```
```

```
aagtgagttt ttggttttgt tttttaatt tcagccattc ctagagttac tgaatatcca    1320
tggagatctc aattctctgt gtccaacagg atattaggta agaaagtaca aagataaacc    1380
tggacttctc ctattccaat atgtcatct                                     1409
```

<210> 5811
<211> 1612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1613)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1173)...(521)
<223> similar to gi4128015 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
<400> 5811
cctttttttt tttttacct aataaaaatc tttatttttt tattaaaaaa gaggggcgtt      60
tggtagctat ttaaataaga gggggggggg aatgaatgtc cagatacgag cacctgcatc     120
ttttagtcaa ttgtcagtgg agtcagtggg gtgctaagtg ttctgaactg aagtaggtgc     180
actaaggttc caagcttccc tgcaaggatc tggacgggag gaaaagcaga ggcccctgaa     240
gggaaaaaag ccttgcttcc caatacttat ttttttatta ctgtgcaaaa gagcacactc     300
tccctctttg tgtctctccc acccaacggc acccccccca ccccaaccc aagagggact      360
tatacatggg agtgcagggg acagagttga ccaggggggg cctttgtccg gcaccctggc     420
ccacaggctg agctcagccc caggcccttt caggcatcta gacactccca taagcctgtc     480
agggtggggg gcaagggaga tcccaggggn cacacatact tccctggaag agttggactt     540
aggggtaaga gcggggggc acggtaccca gccttgctct cattcccagg gacagggaac      600
aggagagcag tgcacctccc aggggatgga ctaggggcag acccttgccc agcccaatta     660
aagatgggca ggggcaaact catacttaaa tgttggtagg gattcaaagg gttataaaaa     720
gtctgtgaca atctgatggc ccataccagg agcaagctac caaagcggca aagacctgcc     780
acgatgaaaa attatgcctc cacccatggc tatacgggcc tttctttcac tttgtcgtct     840
tcccccacag cgcggtgcac ttcatgcccc atcgtggcca caaacatggc caggaagccc     900
agcaccaggg agaccaccat tagggctcga gtggcctgca agggccgcgg acagggcgag     960
caccgagtcg tacattttgc agctcatcat ccccgtgctc tgcgtgacgc agtccatcca    1020
cagcccctttg tacatggcct gggccgtgat gatgttgtca cccgcatagg agctcatctg    1080
ccactgcggg atggcggtgc aggccaccag acccacccag cccagcaggg ccatggagaa    1140
gcccagcaac tgcaggcccg aattggccat ttccgccctc agaaaacact gggggcgccg    1200
ggcggggaga ccctacagta aaacaaacga cacttggggg gcagccccac aaaagaaaac    1260
ttgaggtgga gttttccggt cacccaaaga gacaaaaagg gtttgggcca ggtgaatgca    1320
aatcttgtca ccaaactaca cacaaatcga cccctccagt gaagcgatgg cctcgcggca    1380
cagggagtag gatacgccgg gagggtggtt ccagacaaaa ttggtggtcc ccgaaggcca    1440
ggcggttccc tccgggcgct ctcggcgacc ctaggcaaac aaaaggtgga ggggccgtct    1500
gggcgcgttt ctgagcgccg gcaagtccca aagtatcctg ggctgtaggt ccgaggctgc    1560
ggtgcgcagc agaggtgctc gcccggtccg gcgcgtgggc gacggaatcg gc            1612
```

4353

<210> 5812
<211> 3881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3882)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3807)...(195)
<223> similar to gi36122 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5812
```
tttttttttt ttactatcta caaaaattta ttatatattt acagaagaaa agcatgcata   60
atcattaaac aaataaaata cttttttatca caacacagta catatttgtc atttttaaaa  120
agccacacaa tagaaacaag acaccaagat atttaaatta tcttcgttga ctcccccncng 180
taaaaatagc taaacactca tcattcgcgg tgcaattact cataggacat aagttcctgg  240
aaacaatagt ttggcatgcg taagggcatt cgcacccaaa ggaaatctgg ggtttttattg 300
cgggcagccc ctggcatttc atatggtatg gggtcccggg tgttgggcca atcgccatta  360
attccacaaa ggattggcaa agcatggaac ctggatatgg ggttctggat ggcctccaaa  420
ccaatccttt tccccttaaa aactggggct ggctccatgg gggcaatctg gacaatctcg  480
ttcccatttc ttcaaaaacg caggccacca ttcgggagaa ctaccctcca tggggctggt  540
ctattgaggg attggaatag gtcccccctta gcacgaagag tgaaccttat ccatcccacc  600
atatgcttca aacgctggta ataagtgggg cccaataaaa aatcgggatg ggatttttcc  660
gaccagtgaa acccattgta cagggacctc catttccctc ctgaagagga tagcccataa  720
tccaggataa aaagattagg aaaccttcct gccacgttaa acagcatcca ttaaaatgga  780
gtggcatcca cccaatttca ccccttgtta agcccgatac ccttcccctt gaaggcattc  840
aattaagtga cccaatagtc atacggagag gggatgggca tggggattga tgatgatatc  900
aggggggtgat accttcacag gtgaaaggca tatcctcttg tctatactga ataccacaag  960
tacccttttg accatgtcga ctagcaaatt tgtctccaat ctgtggaatc ctaacagagc 1020
gtacccttat tttacaaaat ttatatcctt cctgattgag agttacccat aacctgatga 1080
acaatgcccg tctcgctagt tctgagaaaa gtgctacagt ctcttcttgg tatagcggtc 1140
tattggtgct ctcccaaatt catcttcatt ttccaggcaa ggtgactgtt ttgcctataa 1200
taacatcatc tcctgatacc acgaaccccc tgggagctat caaaaccnat catcatccag 1260
cttgtcgtaa atggcatgcg cgtcntgccc tggcatggtt cacgtgtagg cttctcaaaa 1320
acttcttctt gatcaaatcc tttttttagac tcctgttctt tgtatgagcg atagaaaaca 1380
gacctgaaga agccgcggtc ctacagctga acgattcatg ataacagagt cttccctgat 1440
tatatcccag tgtatgatgc aatggccaca attgagttga tgcctgctgg cagctctcta 1500
aatcgtagat attccataga ccgtgtagtc acaagtggct tttgaggata atagagaaca 1560
tgggccaatg tgtccatgcg aacatggaag ttggtgatgt aaactcccat agcctgctta 1620
cccatagcag actggtatgt gtttctaggg gactggttat gatcaggaaa gggaataata 1680
gatgcacaga caccaaggat cattgaggga tgaatctcac agtgtgtata tgtggaacaa 1740
taagctactt ctttctcctg taaatcatct ggagtcattg caagcatcac tgtttcttct 1800
tccagggtat caatatactc cactacccca ctggccacaa gatcctgcca actatagttg 1860
ttatattctc tctctttcaa ttggtcaata tgcctcttct tcaaaagtag cttttgtttt 1920
tccacaatca gaagtggtct acaaatacgg cctgcatccg tatagatccg aatctccctc 1980
tctcgaatat ctctgatcat agaaacttca gacacaatga tgtccatctg acgtctcaat 2040
```

```
ttccttaggg tgttcataag ttgttcggga tctttatgta ttccaaccca gcagccatta      2100
acaaaaatct tggttgcatc agcaatagct gcaggagaaa tttcttctaa attttccata      2160
ctccattctt ctaaaaattc cagaattgga gatggttgag atccaactga aatatacgcc      2220
atcaaggcta aattcttcac aagtcctaca gcatggccct ctggggtctc ggcaggacac      2280
accattcccc acaacgtatt atgcaactgt cttggttttg ctagcttgcc gtctctacca      2340
ataggagaat ttaaacgacg caggtgagaa agagtagacg caaaagtcag gcggtttaac      2400
acctgagata ctccagctct ggcttgatga gctttctttt gatcacccca gtttccagta      2460
gctaaagagt attttaggcc atcagatatg atccgtgttt taattgccaa ctccaagtta      2520
aaatcctttc ctcgatcaat aaatttctgt gcatagatcc gcacttcttt aagcaaattc      2580
ttaaacatac ctctaaataa gaatgcaagc agcggcccag caagatccaa tctcttgttt      2640
ccatagtgat ctctgtcatc tagttctctt ctacccaaag ctgccagaag taacctatga      2700
accatgtatc ccaagaaata ggcttttttg gtctcacaaa aatcactgac accaacatga      2760
gggagcattt ctttttgtaa aacttccttt gcatatttaa ttcttttctc tttagtaaca      2820
ccaggctttg ctcctcttga accaatgaaa tttagtgcaa cattctgttc ttggatgaca      2880
aaagcttcat cgagagaagg tttaaccatt tccatcatct ctggatcttc aaaatcataa      2940
ataatatgtt ctaaaatatc tctgtcggac acaaaaccta atgctctgaa cacaataatg      3000
atgggaactt cttgcttgat atatggtaga gttgccacaa tgcgctgacc aatagcactc      3060
ttcttggcac cctgtcctcc tcttgccagc atgctaaccc atatagtact ggtgggtcgg      3120
gaagaattct caagacatga tctacactct cctgtgtagg catatttaga atcctttttg      3180
gcaaacacat aaactgtgtt tgttgccatt ttctcttggg caatcagaac cttttctgat      3240
ccattaataa tgaaatagcc accaggatcc aaagggcatt catttaactc acaaagatca      3300
cgatctgtca agccattcaa aaggcagtaa gttgaccgca acataattgg aatttttcct      3360
ataaagtttt tctgatgctg agtctgaagt tgttcttcac cttctttaat gactgttttt      3420
gttatatcaa cataaagcgg agcagaatac gtgagattcc ttaatctagc ttcattgggc      3480
atcattggtg aaggagcacc atctctttcc caatgggtag gcttggaaag ataaatttgt      3540
tcaaacttca gcaaatatcg tggcggttct tcaacttctc cactagcatg ctgagcttca      3600
gcctgtaggt ctataggagg agcgtcttcc acaattcttt gaacagacat ctgaataaac      3660
tcatcaaaag aatccagctg ttgtctaacc aagcctttct cgtcaaaata ggaactgatt      3720
acaatccagc atgcttcttg ccacaaatcc ggggtgattt catcatcatc ctcatcatat      3780
tgcatatcct catccgcgtc gtacatattg ccaaacggtt ctcgagctcc taactcttga      3840
aatcaaaaga caaaaaccgc ccagaagcca gcagcgccag g                          3881
```

<210> 5813
<211> 1678
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (305)...(1190)
<223> similar to gi4929603 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5813

```
tccagcgccc cgcaccgggg ccgttagtca gcagaacgcg agctcttgtg gaggagcagg       60
gccggcgcga ggcgagactc gggagcgtga gcggggcccc tggggcgccg ccgtccttct      120
tcgccccggc gccggggggct agtagccatg gtccccgctc ctctgtcggg ccagtctgca      180
ggcggagaga gtcggacggc gcccggagcg cggatctcgc cttgtggagg acagcgcgtc      240
ggctgcggtt ctctctcgac cccttctgcc cggcgcttcg gcccgggccg ctcaggtgca      300
gagcatgaat aatctttcat ttagtgagct atgttgcctc ttctgctgtc caccttgtcc      360
```

4355

```
agggaagatt gcttcaaaat tagcgttttt gccacctgat ccaacttaca cactgatgtg    420
tgatgaaagc ggaagccgtt ggactttaca tctgtctgaa cgagcagact ggcagtattc    480
ttctagagaa aaagatgcta ttgagtgttt catgactaga accagtaaag gcaacagaat    540
tgcttgtatg tttgtacgtt gttcacccaa tgcgaaatac actttactct tctcacatgg    600
aaatgctgta tgatcttgga caaatgagca gcttttacat aggactagga tcacggatta    660
attgtaatat attctcatat gattattctg gatatggtgc cagttccggg aaacccacag    720
agaagaacct ctatgcagac attgaagctg cttggcttgc tcttaggaca agatatggca    780
ttcgccctga aaaagtggat taaatatggc caaagtatag gggcagtacc cgtctgtgga    840
tcttgctgct cgatatgaga gtgctggcgg taattcttca atcccctctg acttcgggaa    900
tgcgagttgc ctttcctgga taccaaggaa gacctactgt cttgcatgca ttcccaaaca    960
ttggacaaaa tctcttaagg ataacctctt ccagttattt aattaatttc atggggactt   1020
gaaggatgaa gtcctttgga ctttttcaca tgggcctcgc atttgtttgg aacgttggcc   1080
caaagacctg tggagcctct ctgggttgaa ggagcaggtc acaatgatgt ggaactttat   1140
ggacagtatc ttgaaaggtt gaaacagttt gtgtcacagg aactggtaaa tttgtaaaat   1200
attctgtaaa tttgctactg ggttttcctt tcttgctgaa ctgcactctt tggtaaataa   1260
cataaaacct gaaggttttg tttgcaaatc atgtcagttg ccttcataaa tgtacaggta   1320
atgatttgtt aacagactta atgaaggttt taattaccag aactaaaaac tggaaataac   1380
agtaccgtgc agtcaggctg tgtaatttat attttttctg tgaattttt tttaacatca   1440
agatgagtac tgtatgagat tttgattcta taaaatcaaa tgctgtaaaa gtattgccaa   1500
atgcttttgc atactagaga cagatttata aatatttttg agacatctca atatattaga   1560
tcttatcctg gaatacaact gtgcatattt tgagagaagc tatgtatctg caggcacttt   1620
cagtactcat aatggaatga actctaaaag cagatttgac accatgcgag ttcactag    1678


          <210> 5814
          <211> 2007
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (416)...(1792)
          <223> similar to gi3327974 in the genepept database release 114,
                Run with FASTXY 3.3t00, default parameters



          <400> 5814
tgaattccgg ggatgggatc cggctcctcc agctaccggc ccaaggccat ctacctggac     60
atcgatggac gcattcagaa ggtaatcttc agcaagtact gcaactccag cgacatcatg    120
gacctgttct gcatcgccac cggcctgcct cggaacacga ccatctccct gctgaccacc    180
gacgacgcca tggtctccat cgaccccacc atgcccgcga attcagaacg cactccgtac    240
aaagtgagac ctgtggccat caagcaactc tccgctggtg tcgaggacaa gagaaccaca    300
agccgtggcc agtctgctga gagaccactg agggacagac gggttgtggg cctggagcag    360
ccccggaggg aaggagcatt tgaaagtgga caggtagagc ccaggcccag agagccccag    420
ggctgctacc aggaaggcca gcgcatccct ccagagagag aagaattaat ccagagcgtg    480
ctggcgcagg ttgcagagca gttctcaaga gcattcaaaa tcaatgaact gaaagctgaa    540
gttgcaaatc acttggctgt cctagagaaa cgcgtggaat tggaaggact aaaagtggtg    600
gagattgaga aatgcaagag tgacattaag aagatgaggg aggagctggc ggccagaagc    660
agcaggacca actgcccctg taagtacagt tttttggata accacaagaa gttgactcct    720
cgacgcgatg ttcccactta ccccaagtac ctgctctctc cagagaccat cgaggccctg    780
cggaagccga cctttgacgt ctggctttgg gagcccaatg agatgctgag ctgcctggag    840
cacatgtacc acgacctcgg gctggtcagg gacttcagca tcaaccctgt caccctcagg    900
```

4356

```
aggtggctgt tctgtgtcca cgacaactac agaaacaacc ccttccacaa cttccggcac      960
tgcttctgcg tggcccagat gatgtacagc atggtctggc tctgcagtct ccaggagaag     1020
ttctcacaaa cggatatcct gatcctaatg acagcggcca tctgccacga tctggaccat     1080
cccggctaca acaacacgta ccagatcaat gcccgcacag agttggcggt ccgctacaat     1140
gacatctcac cgctggagaa ccaccactgc gccgtggcct tccagatcct cgccgagcct     1200
gagtgcaaca tcttctccaa catcccacct gatgggttca agcagatccg acagggaatg     1260
atcacattaa tcttggccac tgacatggca agacatgcag aaattatgga ttctttcaaa     1320
gagaaaatgg agaattttga ctacagcaac gaggagcaca tgaccctgct gaagatgatt     1380
ttgataaaat gctgtgatat ctctaacgag gtccgtccaa tggaagtcgc agagccttgg     1440
gtggactgtt tattagagga atattttatg cagagcgacc gtgagaagtc agaaggcctt     1500
cccgtggccc cgttcatgga ccgagacaaa gtgaccaagg ccacagccca gattgggttc     1560
atcaagtttg tcctgatccc aatgtttgaa acagtgacca agctcttccc catggttgag     1620
gagatcatgc tgcagccact ttgggaatcc cgagatcgct acgaggagct gaagcggata     1680
gatgacgcca tgaaagagtt acagaagaag actgacagct tgacgtctgg ggccaccgag     1740
aagtccagag agagaagcag agatgtgaaa aacagtgaag gagactgtgc ctgaggaaag     1800
cggggggcgt ggctgcagtt ctggacgggc tggccgagct gcgcgggatc cttgtgcagg     1860
gaagagctgc cctgggcacc tggcaccaca agaccatgtt ttctaagaac cattttgttc     1920
actgatacaa aaaaaaaaaa aggaattcat gatgctgtac agaatttttat ttttaaactg     1980
tcttttaaat aatatattct tatacgg                                         2007
```

<210> 5815
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (364)...(10)
<223> similar to gi1712 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
<400> 5815
agggtatgag ttttgtactt ctttcataag tttattccta atcatgttat tattttttgat      60
agtattgtaa atgaaattat cttaatttca tatttggatt gttcattcca agtatataga     120
aatacaactg attttttgtat attgatcttg tactctgcaa cctgctgaac ttatttgttc     180
caatagtatt ttaatgaatt ccttaggatt ttctacatag aaaatcgtat catctgtaca     240
tagagatagt tttccttctt ccttcctaat ttagataact attattattg tcatcgagat     300
cttgcttaat tgccctgact agaacctctg gtacaatgtt gaatagaagt agcaagaatg     360
gataccttgt cttgttcctg gtcttagggg aaaagcatct agtctttcac cattaataat     420
gttgtcagct ttggtttttct ata                                            443
```

<210> 5816
<211> 2756
<212> DNA
<213> Homo sapiens

```
<400> 5816
ttcatattaa aaaaatagct ggtaaatctt tctaggtagt aacttatcca aacaatactt    60
tgagtatcat attttgtgaa tgacttgctt aaactgggaa actgaatatt ctttttaaat   120
catataattc ctgtattaaa tgtgaaacac acagtctcca aagtcacctg attctctgtg   180
gaaaatgaaa ggcattgaag gaaaccagat acattaatac ttagtttttgg ttgaaagtgc   240
aacattactg tacttagaag gggcttggtt tatttttaga tatttaagct atcattaatt   300
ttagaccaat ggctaataat aagagagatt tttggttgct catttatgga gagacaaaga   360
acagcatggc ataaacaaac atcccagaaa taaatgaaaa gttttaagtg ataaaattgt   420
gttttctatg aaccagtgtt gtacatgaac caacattgtg tttcttagct ctgacctgta   480
cagtgaggta cctgtcagga cccctagtct tggcactgga aatgacaaag ttctcctatt   540
actaaattct catgccttcc cttttctgac ttaagtagat tgaaattggt aggtaccaaa   600
tgatttatgt ttgataaact taagttctgc tgatatcctg ttactggtaa ttctggtacc   660
aaaatttcaa acggtttgat tattagtagc attttgagta cctaggtgca tataatacag   720
ttagcagacc cttacagagt caaaagagat tttggaatct ggtgatactg ttgtttatta   780
cactagccta ttacattttc tttctttata ataactgttt atgtgagttt cattgaaaat   840
cgtggctcta ttgctttatt catggtttcc acaactcttt ttgtaacacc ttaattttct   900
ctcttaggta ttttcctgtt aaataagata tcaaaagcat caatcacaag acagagaaaa   960
cgtattagga aaaacttgta ttagtatatt ctaaactgaa atggaaaaac tcattattca  1020
tattttaata aataaaactc ccaaatgatc ttgctaaatt atcccactat ttagaagtag  1080
aaaataagag aagagtgctt tcaaggaaat ttgtcatatt ctcccttcta tctagaagtt  1140
gacaatgaat tgcaataaaa ctaagaaata actgaatgct gaaaaatacc atgaattaat  1200
gttatggctt ctttattttt gtatatccat tcccacaaaa ttgaatttaa gattattaat  1260
gaaaattcta tattaagtaa taatgcttgt attagtaatg ggcaaagaag tctttctttg  1320
ttacattaac cgttagtaaa agatgtactt tgacatttct gatgtaaaac ctatatgtaa  1380
atattgtaat ttaaatatga ttggacagct gttaagtttt ggggagggaa gcagatgcca  1440
gcgttctctg ctgaaaagac aagatggcgc ttgacggacc acagcagatg gagctggagg  1500
aggaaaaggc aggcagtgga ctctgccagt attatctgtc caagattgaa gaactccagg  1560
gtcaactgca atataaattg gatgggggaa agccacaagg aacagttctg aactccaggt  1620
gcatttgcag ctgatttttga atgataagac ccaaaacctc tggaggcggc aggtgcacgg  1680
gaatgaacta aatgttaaag tgtgcctatt acaggaggag ctacagctgc tgcaggaata  1740
ggactcctgt gtcagggaag tagtccaggc catgggtaag aagaaagtgt tggtcaaggt  1800
gcatctcaag gacaagtttg tcatagatgt ggacaaaaat atcagcatca gtgatgtgac  1860
acccagttcc ttggtggttc taagaaatga cagctacact ttgcacaaga tcctacccaa  1920
caaggtggac tcattggtgt cactgatgat ggtgaagaaa gtaccagatt cagcttatga  1980
aatgattggt agactggata ggcagatcaa gaagatcaaa gaagtgatcg acctgcctgc  2040
taagcatccc gagctcttca aagcactggg cattgcacag cccaagggaa tgctgcttgg  2100
aagagactgt tggcctgggc tctggctcat catagggact gtgtaccttt attcatgtct  2160
ctggctctga attggtacag aaattcattg gggaatttct gtgatggcag agaaaatgct  2220
catctgtcat cttcatggat gaaattgact cttttggctc ctcagagctg gaggggggatg  2280
ctggagggaa cagtgaagtg cagcagatga tgcttcgagg gtggctttga ggccaccaag  2340
agtatcacgg tttatcacgg ctgctaatac gattgatatc ctggactcgg cactgctttg  2400
cccagggcac attgacagaa aaattgaatt cccaacctgc aatgagtagg cctggctggt  2460
cactttgaag attcattctc agaaatgaac ctgacccagg ggatcaacct gagaaaaatt  2520
gctgagctta tgccaggagc atcaggctga agtgaagggc atgtgcacag aaaccggcat  2580
gtatgccctg agtagcgagt ccatgtcact cagaaggact ttgaggtagt ccaaagtcct  2640
atctcatgcc aaaggacagt gaggaaaaac atgtccatca agaaactatg gaattgaggg  2700
cacatccttt gtgtgtatcc ctacaataaa actcagtggg acaagcaaaa aaaaaa      2756
```

<210> 5817
<211> 2356
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (393)...(1989)
<223> similar to gi4928697 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5817
tttaccggct cgacgatttc gtcccaggca ccgcaccggg cagtctccgg atctgccgtt   60
ctgccccggc ccggaaaacc cggcgccttc caggcccttc gaaagatgga ttctgttgac   120
gtatctggcg gccctggcga gcctggtgga aagttgggtt ttgccagatt gcgccgggct   180
cctctttgtg acgcgcggcc agccccgcat ctcccccgga gccggatggc catgaaatca   240
catctcagca catgcctttg actctggatt gcacatgtat tcattagctg aagcccaatt   300
ttaaaatcca atcaactcta tgattccttg aaatgactgc aaatcaagtc acatccagtg   360
ctcctcaggc caagtggcat cagagctgag tgatggacga cctgcagtcc cagaacctct   420
ccatggacat gactgactcc cctcctgcct tggctaataa cagactggag aatggcatgg   480
ctcagctgat caccaccgag gcctggaaca tcaactccac tgacctggta aagaaggccc   540
tggtgaccgt gccagcccca tccattctga accccctgc cgagtctcag agtggcatgg   600
ctctgaaggt ggcggccact gtgttgcagc ccctgtgcct cggggagagc ccagtggtga   660
tgcccattca catgcaggtg gagggaagct ccgcaccaga gctcaatccg aatggcaatg   720
ccacctacgt catgaccacc cagggccccg tgcaactgcc cgtggtgctg gagcagcacg   780
tctttcagca cctcaactcc cctctggtcc tgccgcagga ggccccatgc tcctccagta   840
ccatccacaa caacctcttc cagggagcgg aggaccccga ggcccagccc cagctcctgg   900
acctgaggat ccccagccag ccgcaggagc ccactttgcc atttgaagct gtgctccaga   960
atttgtttcc ctcccagggc actctcgggc ccccaccctg tcagcctcct cctggctatg   1020
cccctgtgcc cccacagcct tttagctccc ccttgtcccc cctggtccca ccagccaccc   1080
tcttggtgcc gtatcctgta atcgtcccct tgcctgtgcc agtccctatt cccatccca   1140
tcccggtgcc tcagagttct gaatccaagt tcagctccag tttccccaag ccaccatctt   1200
ccttcggcct gcaccccttt aaaggcaccc agacccctct ggaaaaagat gaactgaagc   1260
cctttgacat cctccagcct aaggagtact tccagctcag ccgccacacg gtcattaaga   1320
tgggaagtga gaacgaggcc ctggatctct ccatgaagtc agtgccctgg ctcaaggctg   1380
gtgaagtcag tcccccaatc ttccaggaag atgcagccct agacctgtca gtggcagccc   1440
accggaaatc cgagcctccc cctgagacac tgtatgacag tggtgcatca gtggacagct   1500
caggtcacac agtgatggag aaacttccca gtggcatgga aatttctttt gcccctgcca   1560
cgtcccatga ggccccagcc atgatggata gtcacatcag cagcagtgat gctgctaccg   1620
agatgctcag ccagcccaac caccccagcg gcgaagtcaa ggctgaaaat aacattgaga   1680
tggtgggcga gtcccaggcg gccaaggtca ttgtctctgt cgaagatgct gtgcctacca   1740
tattctgtgg caagatcaaa ggcctctcag gggtgtccac caaaaacttc tccttcaaaa   1800
gagaagactc cgtgcttcag ggctatgaca tcaacagcca aggggaagag tccatgggaa   1860
atgcagagcc ccttagggaa accccatcaa aaaccggagc ataaaggtta aaggaaagtg   1920
aactcccagg aaataccaca tgctcccaat caaaaaacaa cggctggcca cctttttttcc   1980
aagaaagtaa ataacggctt tttaaaattt gtatgattat aatatgggga aaggtgcatt   2040
ggttttataa aaaggcattt aaaacaaatt atctttgtta attattttgg ggagtagttg   2100
ggaaatggaa aggtgaattg gctctagagg ccctgtatgc tagtatcatt ttcttttta   2160
atttttgact tttcacaaat gagtaaataa gagcaaccta ttttcaagc agattgcaca   2220
tttttgcag ctttaatgga atattgggtg aattagaggg gtaaaaaagc tattttcatt   2280

```
gccacaaagt gctttgatga tgtaatacct aataaagggt aggatgaata tttcacaata   2340
aatgtttgtt tgcact                                                    2356




      <210> 5818
      <211> 1928
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1393)...(1106)
      <223> similar to gi4455160 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters




      <400> 5818
      gcggccgcgc ggcctcccgg gcgggcctac agccatgtcc cgggacccgg ggtcgggcgg    60
      ctgggaggag gccccgcgcg cagctgccgc gctctgcacc ctgtaccacg aggccggaca   120
      gcggctgcgc cgcctgcagg accagctcgc tgcccgcgac gccctcatcg ctcgcctccg   180
      cgcccgcctg gccgcgctgg aggggacgc cgcgccgtcc ctagtggacg cgctgctgga   240
      gcaggttgcg cgcttccggg agcagctgcg aaggcaggag ggcggcgccg ccgaggccca   300
      gatgcgccag gaaaattgag aggctgactg agcgactaga agaaaaagag agggagatgc   360
      agcagctgct gagccagccc caacacgagc gagagaagga agtcgtcctg ctacggagga   420
      gcatggcaga aggggagcgc gcccgggccg ccagtgacgt cctgtgccgc tccttggcca   480
      acgagaccca tcagctgcgg aggacgctga ccgccaccgc ccacatgtgt cagcatctgg   540
      ccaagtgtct ggatgaacga cagcatgcac aaaggaatgt gggggagaga agtcctgacc   600
      agtcggaaca cacagatggg cacacctctg tccagagtgt tattgagaag ttgcaggaag   660
      aaaatcgact gttaaaacag aaggtgactc acgttgaaga cctcaatgcc aagtggcagc   720
      gctacaacgc cagcagggac gaatacgtga gggggctcca tgcgcagctc aggggctgc   780
      agatccccca cgagcccgag ctgatgagga aggagatctc ccggctcaac agacagttgg   840
      aagagaaaat aaatgactgt gccgaagtga agcaggagct ggcggcctcc aggacggccc   900
      gggatgctgc gttggagcgg gtgcagatgc tggaacagca gattctcgct tacaaggatg   960
      acttcatgtc agaaagggcc gatcgggaac gggctcaaag taggattcaa gaactggagg   1020
      aaaaggtcgc ctctttgctg caccaggtgt cctggagaca ggattctcga gagccagacg   1080
      ccggccggat tcacgctggg agcaaaactg ccaagtattt ggccgccgac gcattagagc   1140
      ttatggtgcc tggtggctgg aggcctggga ctgggtccca gcagccagaa ccccctgcag   1200
      agggcgggca tcctggcgcg gcccagagag gccaggggga ccttcagtgc cctcactgcc   1260
      tgcagtgctt cagtgacgag caaggggaag agctcctcag gcatgtggcc gagtgctgcc   1320
      agtgaccgag actcacccgt gcccttgcgg cctcctggcc cggtgcagct gccctcaggg   1380
      acagggtggg tgctctcaga tgccatgggt tgagctctac tgagagccaa ggcccctaga   1440
      atagttgcgg ggcactctga tcgttcactt tggtcccttt ggctatggaa caggctgggt   1500
      cacagggaac tgccagtgag gctggaggct ggaggtggag atggggtcag gaacatctgg   1560
      cagagggagg tcccagtctg tgtctccatc aggcttaagc cagagctatc tggtgctggt   1620
      gtgccagccc ctccccccagc ctgcctagaa aggggtggct gcctgaggga gtcacttgta   1680
      tggtccccag ggtgggagcc ccatcctgtt ctatggaata aagcgtcgcc tctctgcctc   1740
      gaaccagtca aatggagtat tgcggctgca cgtcacacta gggtggccac ccccgccatt   1800
      gcgagccaca tgtctgcact gagaaactgc atttcagtag catttgtcat ccagccggaa   1860
      gttaaagcac acttacttta ttcacctatt tttataataa acgttcttgc tgctgtgaaa   1920
      aaaaaaaa                                                            1928
```

<210> 5819
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(466)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (77)...(436)
<223> similar to gi3170965 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5819
nttgttgacg tccctagtcc agngcggtgg aattcatccc tcccctacag aagcccccag   60
agcgcagcac ctcaccatgg actgcacctg gaggatcctc ttcttggtgg cagcagctac   120
aggcacccac gcccaggtcc agttgttaca gtctgggtct gaggtgaaga agcctggggc   180
ctcagtgatg gtctcctgct acgtttccgg atacaccctc actaaattat ccatgcactg   240
ggtgcgacag gctcctggaa aagggcttga gtaaatggga ccttttgatc ttcaagatgt   300
tgaaacaatc tatccccaga agttccaggg cagagtcagc atgaccgagg agacatctac   360
agagacaacc caacctacct ggagttgagc agcctgagat ctgaggacac ggccgtgcat   420
cactgtgcaa cagacacagt gtgaaatccc ccagcctgag agcgt   465

<210> 5820
<211> 1605
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (800)...(1430)
<223> similar to gi2828151 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5820
aatacaaaag ttagccgggc atggtggcac gtgcctttgg tcccagctgc tcgggaggct   60
gaggcaggag aattgcttga acccgggagg cggaggttgc agtgagttga gatcgcgcta   120
ctgcactcca gtctgggcga cagagcaaga ctcccttttcc aaaaacaagc aaatgaaaaa   180
atagagtttt ctctatcaca caaatgggaa ggtttgtatt gaatgttata tttatcctct   240
atccagtctt gtcttggagc acaaagcaaa aaggcccagc atcctccact atcttctgaa   300
aacttgccct caggcctgag caagagggct gcccggttgc ttccatgtag ccagccagca   360

```
tatgtgcagg gccaagtcta gagggaggag ggggtggcac atggatggtt tcgtttaatt    420
ggaagacagt gggtagattg gagctggcat ttgaagatgt tgagagttgt ggatcatggg    480
caagaaaagc gctgttctgg gactgcgggg caggagaagg aaactgatgc ttctgagggt    540
gagtctgatg agataacatg cctgtgtgtg ggcctcaggt tagacagtgc tgaggtctcc    600
cgtcactggg catccagctg ggtgctacgg ccgtggctcc tgccttctgc agccctgtca    660
gggcccaagg ccttccccat cagcacttgc tccagcctac tcactggagt tgtgttctgg    720
gtgggtgtgt agaatactcg cactcctact tggggcatca gggagctctc tagcaatttc    780
ttctgcacct agggagagcc cactgctaaa aaaggcctag tcaaatcctc aggtgtacat    840
ggacatcaag attgggaaca agccggctgg ctgcatccaa accctcctgc gttccgacgt    900
cgtgcccatg accacagaga attttctcta catgtgcacc catttaaagg actcggcttc    960
aagggaagca gcttccaccg cattatcccc cagttcattt gccagggcag tgatttcaca   1020
aaccacggtg gcaccagggg tctgcgcagg catggcacta agtgtcccat ggcacatttg   1080
gccctcatgg aggcctcaaa agggcaggac cagcaccctc ttctacggag gaaggaacgg   1140
gcacagcagg gtgagccact gcgcctgatc aaggcatcac cgttgaacct cctaagagga   1200
aaacataagg ctgtgcaata ccaggaactg ggattctagg ttgccccaga caccaaggca   1260
tcaaaagcca ggggatccag agaaaacaca gacagccaag agagaaactg cgggaaaaag   1320
ccaaaaggtt gagagccaca ccatctagaa gcttcctgcc tgtggtgcgg cacagaaaca   1380
aggagagtca gcaattacca gccagccaag gtcctggaag ctgacgtaga gctcgtgccg   1440
acggcagacc tgccggccgt gggagccgcg gacgtcatct gcagggacag aaggggcaag   1500
gtcttttctg gggttcctgc tgtgtgcagc tactatgggg taccagggtg ggggatgccc   1560
tgatgagcac atttgtcaaa taaatgaatg acaggaaaaa aaaaa              1605
```

```
cctggaggga ggcaggaagg gtggacacgc ctgtgtgggt gatgggcaga ggggacctct     60
ccttcctgtc tccctcgagc ccggagcatc tctccttcct gtctccagga ctacagtatt    120
gacgaggagg ccgccttcca ggctgctctg gccctgtctc tctctgagaa ctgaagggaa    180
gcgcagccac ccgcctgcgt ctggggtcag ggatgtcccc gctcctgtgt cgcacctggc    240
acctgctcgg gagcgcacct caccggactg agctcacagg aggagcctgc acccgcgcag    300
aaggggagcc ggggccgagc ctccgggcct gaatacgggc cagccgccga ggccgccaga    360
gcagggccgc ctggtcccac cggcgtcgct gggttcttcg gtgcttctgg ccgagcaggc    420
ggcctacttg ggcagggctg gacgctggga cctggagctg ccgccgtctc ttcaaagcca    480
tgataccccc tcgtgggaag aagggaccga cgcgcgagtc gcgctccgca gtcgagccgg    540
gaggaaccca ggctgctgcc ctgcccagcc cgaccctgcc ccggccccgc ttccaccttg    600
cgcatttggt actggctttt gtgatactta ggaaccctgg catcttttct atattatcca    660
gtgtgataat cttttcacgt tttatagagc aaagacagag cagttactct tcatattgca    720
atatctgtgt ttgactagga ataatagtat ttttatggaa catttacaaa attatatttt    780
ttaagaaaac aatcaaaaca agcattgggg gattggggca aggatggaag gagcagtggg    840
gcagctgcca gagctcaggc gagccatggg gtctgctgtg gggtctgccc tggccaccca    900
ctgtgtgtct gggtccttga ggtttgtacg tttctctttg atgaccagga agaaatccca    960
```

4362

```
gcacccccagc cacaggctgt ggctgctccc agcagaggcg gggccggcag agaaggggcc    1020
tcctccaccc agagtcctgg ccttggcccg ctgtcacctt caaagctgac tgtgccccgc    1080
tgcgggaggg gacggcaccc cagtggtggc agagcttggg ggcctgggca ggggcccgct    1140
tggcgggccg ggcaacacgt caacattctt ttctgttctt ggcattaatt attgctgtct    1200
tttttaaaa aaaaaagtt taaataaaat gtctcagagc atcaaaaaaa aaaaaagggg    1260
gggccctttt aaagaaccc ttggggggcc caaatttaac gggggttgga aaggtaaaat    1320
tttttctttt atgggggggcc atttaaaacc ctccttggga tttttggaaa agaacctttt    1380
ttttggggggg ggaaaaaatt ggcccaaccc ccccccaaaa tttaaagcct taagggaaaa    1440
aaaaaatttt taaggggaaa aggggggaaaa acaaccggaa taccctggct gttaaaaaaa    1500
atg                                                                   1503
```

```
<400> 5822
ttttttttt ttatctgtat gaaatattag ttttaataaa acagaaccag tccatgtatg      60
gaggcatggg cataaggtca acttgcacta aatgtaactc gtacgttttt tctaaaataa     120
tttcttgagc attgtggtgg ccttatgtac taacccgaag ctgaacttcc tgggaagctg     180
atccaatgga gcacttggaa ttcagggggtg gagtcttctt cctgggtcag agctggttca    240
gggtcacatg ctcttgaggt ccctaaaggc cacatgtgct gcatttcgcc cagcagctcc     300
catcacacct cctccaggat gagccccact tccacagaga tacaggccct ggagagggca     360
gcggtagcca gaatgcaggg gcacggggcg ggcgaagtag agctggtcca gggacatggc     420
gcagtggaat atgttccctc caggaagccc gaagattctc tccaaatctg gtggtgtgag     480
gatgtctctg ccaaccacag agtccttgaa gccaggggca tagacctcga tgcaatcaaa     540
cactgtggga aggcaggcca tccatggcat cttcaaaggc ctgatgaagg aggagggtgt     600
cttcacagtt caggtggatg gagcattggt gatggggcag cggctggccc ctgggagcat     660
tgggggccgc caggaagctg ggcagcctgt ctacggccac ttctgaccag gctgcagggg     720
gacacaggct ggaggtccgg gaatggagat gatgactgag ttcagctgcc cccagcctgg     780
aggtttctca ctcagatggg tcaaaggaga cagtgctgca atgtggtgtg cctcttacca     840
ttgatcttgg tgacaggcga ccgggtgtcc agctgagaga ttctctccag gaactcctca     900
ggaagccact cctgtggcgt cagcttcagg aaggtgatct gcggtgatgt gttggacagc     960
accattttgc ttctcacctc tgtgccatct tccagcacaa ctccttgaac acagccttca    1020
ctgttcacct gcaccttcgc cactgtcttt tcagtgaaga tgcttgctcc atgtgtggtg    1080
gctgagcttg cgatcgcatc agagagggca cccatgcccc cctggacgta gccccaggcc    1140
ccctgcattc cctccaggcc ccccatcaca tggtgcagca gcacatacct gtggacagac    1200
catccgactc agatcctgga ggtgggatct catctcccca gagttccagg tgcaactatt    1260
cctttccatc ttgatcttca gcccttccct gccaccatcc agccctctcc cagcagcctt    1320
caatgagctc aagttcttgt aagagccctt tgccttctct acaccctctc cctaacaagt    1380
gtgtctatgt gcatagctta ttaccacaaa gaaggcaacg atgcccaaac ctgcagctcc    1440
agccctctcc tgagctccag ctccggtgtc cagctaccca cagatatctc cctttggacc    1500
ctttcttggc agcatcttaa acccaccacc ttttcccccat tctccagctg cttcccccttc    1560
aatctttccc atcccagtga acggcacctt tcaacaggag gttctgtttc cgacagaaat    1620
```

```
ccaggtgtca gccttgaccg ctaccatcct tccccatcta catccacaaa gcaacaccaa    1680
ctcagcctcc aaagggcttt caaggtcatc ccacctctca gcctctcttc tcttccttat    1740
gctgctgcag tagtgcccct cattggaccc cctctcccac actttctctc ctgcaggtct    1800
tgtccacata tatcctggag ccctatctta aagcccagct ctgctcctgc cactcactta    1860
tcaccattcc aagcctcccc ggcttggcac tgctcttagg ataatggcca gtcttctagc    1920
aggcactcca gcctcatccc tcatc                                         1945
```

```
        <210> 5823
        <211> 1002
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (368)...(837)
        <223> similar to gi332566 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 5823
ttttcaacct taaaaaattt taatggaatt ttcttctttt ttttttttct ttaaataaca      60
atttgacaaa agggtgaaaa aatcctaaac aaggtattga ggccagtgtc caggctgcat     120
tcagttcaca aaactgtcct caggacgttg catggaactg gaaatgtgta taattacaga     180
agaaaacagg gaggacttag tgcagagagg agacgagtgt ggacgggcaa cagcatcctt     240
agtctttcat atttatatat ggtatatgta ttttctatat atatatttat atattttaca     300
tccaggtatc ccagtcatct gtaccatttc ccagggagac atgggtgctt ccaaggcgag     360
acaggaaagg gttaggcagg gaaggggcag cgacggtgca ggctggggct tggctcacag     420
aagctgcagg agcttcagcg actgtaagag ggccccgggc tccgcagacg ccaggtactg     480
gcagcaaagc cagtcctcca gctccacgcc ccgcctgcga tccaccgcct tctccgcaaa     540
cttcatcatc atcagggccc gcttcatgtc gatccagttg tgcagcgtgc cgcacagcgc     600
ctcctccgag gtgcccggct gctgcaccag ctcgcgccga ggcccccaca gcaggcactg     660
cagcacgcgc ttggcctcgc cgatgcggat acgcttgatg gggtcggcct ccagtagcag     720
atgtgccagc tgctgcaggc cgggtgagta gagggacagc gcgggcagcg gcggcaggtc     780
ctcctgccgg tagtctctct cccgcagctg ggcgcgcacc tcgaacgggt tgggttggtg     840
cagcagctcg tagatgagga tgcctgtctg gaactcatcg aacttgcggt actgggaagc     900
agacacgata tcggggggcca gccgggcctg gctcttcttc tgctgcaggt ttggggtgct     960
gcccggcttc tgcttggcct tcaaaaagtt gctgatgatg ag                       1002
```



```
        <210> 5824
        <211> 3270
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(3271)
        <223> n = a,t,c or g
```

<220>
<221> misc_feature
<222> (1499)...(548)
<223> similar to gi5420387 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5824
ggaccgcgct caacggcctc ttctggttgc tgtcttcctc gtccctccgg cccattgttc   60
ctactcacgc gtctcacttt atggcctatt ttctgcatgg atctctggca gcctcgcttt   120
ctccctgacg tttcagcatc atccccagag gagccacact ctgacagtga gggtgcgggg   180
tcaggcgccc ggccgcacct gctgagtgtg cccgagttgt gcagatacct ggctgagagc   240
tggctcacct tccagattca cctgcaggag ctgctgcagt acaagaggca gaatccagct   300
cagttctgcg ttcgagtctg ctctggctgt gctgtgttgg ctgtgttggg acactatgtt   360
ccagggatta tgatttccta cattgtcttg gtgagtatcc tgctgtggcc cctggtggtt   420
tatcatgagc tgatccagag gatgtacact cgcctggagc ccctgctcat gcatctggac   480
tacagcatga aggcagaagc caatgccctg catcacaaac acgacaagag gaagcgtcag   540
gggaagaatg caccccaggg aggtgatgag ccactggcag agacagagag tgaaagcgag   600
gcagagctgg ctggcttctc cccagtggtg gatgtgaaga aaacagcatt ggccttggcc   660
attacagact cagagctgtc agatgaggag gcttctatct tggagagtgg tggcttctcc   720
gtatcccggg ccacaactcc gcagctgact gatgtctccg aggatttgga ccagcagagc   780
ctgccaagtg aaccagagga gaccctaagc cgggacctat gggagggaga ggagggagag   840
ctggcccctc ccgaagacct actaggccgt cctcaagctc tgtcaaggca agccctggac   900
tcggaggaag aggaagagga tgtggcagct aaggaaacct tgttgcggct ctcatccccc   960
ctccactttg tgaacacgca cttcaatggg gcagggtccc cccaagatgg agtgaaatgc   1020
tcccctggag gaccagtgga gacactgagc cccgagacag tgagtggtgg cctcactgct   1080
ctgcccggca ccctgtcacc tccactttgc cttgttggaa gtgacccagc cccctcccct   1140
tccattctcc cacctgttcc ccaggactca ccccagcccc tgcctgcccc tgaggaagaa   1200
gaggcactca ccactgagga ctttgagttg ctggatcagg gggagctgga gcagctgaat   1260
gcagagctgg gcttggagcc agagacaccg ccaaaacccc ctgatgctcc acccctgggg   1320
cccgacatcc attctctggt acagtcagac caagaagctc aggccgtggc agagccatga   1380
gccagccgtt gaggaaggag ctgcaggcac agtagggctt cctggctagg agtgttgctg   1440
tttcctcctt tgcctaccac tctggggtgg ggcagtgtgt ggggaagctg gctgtcggat   1500
ggtagctatt ccaccctctg cctgcctgcc tgcctgctgt cctgggcatg gtgcagtacc   1560
tgtgcctagg attggtttta aatttgtaaa taattttcca tttgggttag tggatgtgaa   1620
cagggctagg gaagtccttc ccacagcctg cgcttgcctc cctgcctcat ctctattctc   1680
attccactat gccccaagcc ctggtggtct ggccctttct ttttcctcct atcctcaggg   1740
acctgtgctg ctctgccctc atgtcccact tggttgttta gttgaggcac tttataattt   1800
ttctcttgtc ttgtgttcct ttctgctttg tttccctgct gtgtcctgtc cttagcagct   1860
caaccccatc ctttgccagc tcctcctatc ccgtgggcac tggccaagct ttagggaggc   1920
tcctggtctg ggaagtaaag agtaaacctg gggcagtggg tcaggccagt agttacactc   1980
ttaggtcact gtagtctgtg taaccttcac tgcatccttg ccccattcag cccggccttt   2040
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tgtgctctct cttgagatta ggagcttcct tactgctcct ctgggtgatc caagtgtagt   2160
gggacccccct actagggtca ggaagtggac actaacatct gtgcaggtgt tgacttgaaa   2220
aataaagtgt tgattggcta gaactgctgc ctccctgact gtgagctgcc ttccacaccc   2280
tgcactgcac tgtgttctct cctcacccTT aacctgcttc actccagtct gttctggctg   2340
tttattacct tgttgcaaaa cagggccgaa gcaaggatta ccttgacaac cctagcttct   2400
ccttagccat cttccttgac agtgtgatct gtttagtgag atttagcatg tgtgaataaa   2460
gtatatgcag gaggaaattg ctttgtcttc ccaatcggta gaaattcggg accataaaaa   2520
ttgtgtttta ccatgtggcc tacaacctta acactgcttt cttaagaagt cttcacccat   2580
ctacatgcta acaactcact cagcctggat ttatctttac tggggaagcc aaacaagcaa   2640
tagaggacct ttacctgtgt tagaaatgag ttggagccaa ggaacactga agaaatagta   2700
tcttaacagt tactgagtcc attgtatgtg cttggctctg ctctgagtga tttatatgta   2760

```
ttaagatttt tcctcacagg tcagatatat actgttacta atttcatttt atagacaggt   2820
taagcttcct gaaggccaca ggtcccagta aattgtggag ccagaaccca aacccaagaa   2880
gttttggctt cagcaaatgc atcagacagc ccctgtccat taatagggca caggtaggaa   2940
gatgcacaag gatgtgggaa ctatagagaa ccaatctgat gccttggctt aacaaagagt   3000
ggacatggca agccttcctc ttcggggaan aaaagcccag aactgagcag atggcctcct   3060
ttatgagttc atgtcctccg ccttcagctg gaggtaccat atggcgatgc tacctgtctt   3120
tctgctggag gtaccatatg gtaatgctgc ctgtctgtct gctggaggta ccatatggta   3180
atgctgcctg tctttctgag gttgactttt atgccatgtc tttcctaagt gtgtaagaat   3240
ttttctgttt gcttcacatt tgactgagaa                                    3270
```

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        <400> 5825
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tctcagctgt gcgggaacgg ccgagggtaa catcccgggc tcgcgggagg ctgtcagggt    120
aatggccaca cgctgacaga accagccgag tggaaaaggg gagcgaagcc gttcctctgc    180
accttcccc aggcctgagg ccttcccgct tggtgctgcc gccgccactg ccggctgagg     240
aggggcgatg agttggttca acgcctccca gctctccagc ttcgctaagc aggccctgtc    300
ccaggcccag aagtctattg acagggttct ggacatccag gaagaggagc cgagcatctg    360
ggccgagacc attccgtatg gagagccggg aataagttcc cctgtcagtg gaggatggga    420
tacttcaacc tgggggttga aatcaaacac tgaacctcag agtccaccaa tagcctctcc    480
taaagcaatc acaaagccag ttcggaggac tgtggtcgat gaatctgaaa atttcttcag    540
tgcctttctc tcgccaactg atgtccagac cattcagaag agtccagtgg tatcaaaacc    600
tccagcaaaa tcacaacgac cagaagaaga agtgaaaagc agcttacatg aatccttgca    660
cattggccag tcaagaactc ctgaaacaac tgaatcacaa gtaaaagact cttctttgtg    720
tgtttcaggg gaaactctgg cagcaggtac ttcatcacct aaaactgaag gcaagcacga    780
agaaactgtt aataaagaat cggatatgaa ggtgccaact gtaagtttga aagtatctga    840
aagtgtaatt gatgtgaaaa caactatgga aagtatatct aatacgtcta cgcagtctct    900
cacagcagaa acaaaggaca tagctttgga acctaaggaa caaaaacatg aagacaggca    960
gagcaataca ccttctcctc ctgttagtac cttttcatca ggtacttcta ccaccagtga   1020
tattgaagtt ttagatcatg aaagtgtaat aagtgagagc tcagcgagct cgagacaaga   1080
gactacagat tcaaaatcaa gtcttcactt gatgcagaca tcttttcagc ttctctctgc   1140
atctgcttgt cctgaatata atcgtttaga tgatttccaa aaactcactg agagttgctg   1200
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tgtaagtgaa atcaattcag atgatgaatt gtcaggcaag ggatatgctt tagtgcctat   1320
tatagttaat tcttcaactc caaagtctaa aacagttgaa tctgctgaag gaaaatctga   1380
agaagtaaat gaaacattag ttatacccac tgaggaagca gaaatggaag aaagtggacg   1440
aagtgcaact cctgttaact gtgaacagcc tgatatcttg gtttcttcta caccaataaa   1500
tgaaggacag actgtgttag acaaggtggc tgagcagtgt gaacctgctg aaagtcagcc   1560
agaagcactt tctgagaagg aagatgtttg caagacagtt gaatttctga atgaaaagct   1620
ggaaaaaagg gaggctcagt tattatctct tagtaaggaa aaagcacttc tagaagaagc   1680
```

```
ttttgataac ctgaaagatg aaatgttcag agtgaaagaa gaaagcagta gcatttcttc   1740
cttgaaagat gagtttactc aaagaattgc agaagcagaa aagaaagttc aactagcctg   1800
caaagagaga gatgctgcta aaaaggaaat caaaaacata aaagaagaac ttgccactag   1860
attaaatagt agtgaaactg cagacctttt gaaagagaaa gatgagcaga tccgagggtt   1920
aatggaagaa ggagaaaaac tttcaaaaca gcagctgcac aattctaaca tcatcaagaa   1980
attaagagct aaagacaagg agaatgaaaa tatggttgca aagctgaaca aaaaagttaa   2040
agagctagaa gaggagttgc agcatttgaa acaggtcctt gatggcaaag aagaggttga   2100
gaaacaacat agagaaaata ttaaaaaact aaattccatg gtagaacgcc aagagaaaga   2160
tcttggccgt cttcaggtag acatggatga acttgaagaa aagaaccgaa gtattcaggc   2220
tgccctggat agtgcataca aagaacttac tgatcttcac aaagccaatg ctgcaaagga   2280
tagtgaggca caggaagctg ctctgagccg tgaaatgaaa gctaaagaag aactttctgc   2340
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ggggggacctt aggcttgcat tgcagcgtac agaacaagcg gctgccagaa aggaggatta   2460
tttacgccat gagatcggtg aacttcagca gagactccag gaagcagaga tcgaaacca    2520
ggaactgagt caaagtgttt catcaacaac aagaccattg cttcgacaaa tagaaaattt   2580
gcaagcaacc ctgggatccc agacatcgtc gtgggagaaa ttagagaaga atctttctga   2640
taggcttggt gaatcccaga ccttgctggc agcagcagtt gagagagaac gtgcagctac   2700
agaagaactc cttgctaaca aaattcagat gtcttccatg gagtcacaga attctctttt   2760
aagacaggaa aacagtagat ttcaagccca gctagaatca gagaaaaata ggctgtgtaa   2820
actggaggat gagaacaata ggtaccaggt tgaattggaa aacctaaaag atgaatatgt   2880
aagaacactt gaagagacga ggaaagaaaa gacattgttg aatagtcagt tagaaatgga   2940
aagaatgaaa gttgaacaag aaaggaagaa agccattttt actcaagaaa caataaaaga   3000
aaaggaacgc aagccatttt ctgtttctag cactcccacc atgtcacgct caagttcaat   3060
aagtggtgtt gatatggcag gactacagac atcttttctg tctcaggatg agtctcatga   3120
tcactcattt ggaccaatgc ctatatcagc aaatggaagc aatctttatg atgctgtaag   3180
gatgggagca ggatcaagca taattgaaaa cctacagtct cagctaaagc taagggaagg   3240
ggaaatcact catttacagc tagaaattgg caatctagaa aaaactcgat caataatggc   3300
tgaagaacta gttaaattaa caaatcaaaa tgatgaactt gaagagaagg tgaaggagat   3360
acccaaactt agaactcagc taagagattt ggatcaaagg tacaacacta ttctgcagat   3420
gtatggagaa aaagcagaag aggcagaaga acttcgatta gatctcgaag atgtaaaaaa   3480
tatgtacaaa actcaaatag atgaactttt aagacaaagt ctcagttaac ttgtgaaaat   3540
tgaattccca tcaaactgaa tgtaagcatt taatatctaa acatttaatg cggacttcca   3600
ataaattctt ttatataatt atatagtggg atttactgta gagtgtaaaa atttttttaa   3660
aattgattta cactatgtag taatatttac agttaaatta ttttgtgcaa tatttgaact   3720
ttatttttga aactattctt taaagattta ttttttaaag cattcatttt ttttccttga   3780
atagcacaga gatttattac tttatcctca tataaatatg gctagagaag aagaatggtg   3840
ttcatatatg tattgtagat atacaactag ttgtatctat aatttgtaag tgtttatata   3900
tatattaaga acatttgaag agtaatgtta acatactgaa actttgaaat ctttcacatt   3960
taaaatttca acatatctta attactgctc atgaaaatgt acattaagtg ttaaagtaaa   4020
aaattattaa atctgtggct attaaatttt aaactaattt ttttccttta aaagtaagag   4080
tcacactgac actgtctgaa atttaaagag tgaatgattt aaacttaaaa aaaattttga   4140
tctgaaaatt tatttcaccc agctttcaca attaagtctg tataaaatgt ggtaccttt    4200
ggtacctatc cagagaaacc tgtacatatt caatgttatc tagatgtgat tggataatgg   4260
agaaaattta tttataatga ttttgcaatg gcatcaataa catttaaatg attttgaaga   4320
agtattattt tactacccta taaaatgaat cgaaataat aaagttctta acataattta    4380
ctctttaaaa attacctgtt catattttgt aaacccatat ttttagcaca ttaaaaatga   4440
atgtttgata ttacagaata ttcataacaa aatggaagaa ttataggaat taacttgaat   4500
ttggcatttt taattttgtg atttatcatt ttattttttc ttgaaatttc aaacacaagg   4560
aaagcataga atagctttta aaagtagcta tgccttcttc caaatgttat tttattcaaa   4620
aaggtaacca ggttgtgttt taaacctgtg aaatattgtg atgcatttta ttactgaaag   4680
ttatttaact gcctttactt gcacataaaa actctcattt acggccaggt gctgtggctc   4740
atgcctgtaa tcccagcgct ttgggaggcc aaggcgggca tatcacctga tgtcaggagt   4800
tcaagaccag catggccagc agtttggtga accccatct ctactaaaaa tacaaaaatt   4860
agcctggcgt ggtggtgtgc gcctgtaatc ctagctactc gggaggctga ggcaggagca   4920
ttgcttgaac ctgggaggtg gaggttacaa tggagcccaa gattgtgccc actgcactcc   4980
agcatgggtg acagagaaag actccgtctc                                    5010
```

<210> 5826
<211> 2481
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (129)...(2166)
<223> similar to gi36439 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5826
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ctcctgcgcc tcgcttctcc ggtccagccg ccatcttcct ttccgcacag gggccgccga   120
gcggggccat gcagccaacg ctgcttctca gcctcctggg agccgtgggg ctggcggctg   180
tcaattccat gccagtggat aacaggaacc acaatgaagg aatggtgact cgctgcatca   240
ttgaggtcct ctcaaatgcc ttgtcgaagt ccagcgctcc acccatcacc cctgagtgcc   300
gccaagtcct gaagacgagt agaaaagacg tcaaagacaa agagacaact gaaaatgaaa   360
acacaaagtt tgaagtaaga ttgttaagag acccagctga tgcctcggaa gcccacgagt   420
cctccagcag gggagaggca ggagccccag gggaggagga catccaaggc ccaacaaagg   480
cagacacaga gaaatgggca gagggaggcg ggcacagccg agagcgagcg gatgagcccc   540
agtggagcct ctatccctcc gacagccaag tctctgaaga agtgaagaca cgccattctg   600
agaagagcca gagagaggat gaggaggagg aggagggaga gaactatcaa aaaggggagc   660
gaggggaaga tagcagtgaa gagaaacacc ttgaagagcc aggagagaca caaaacgctt   720
ttctcaatga aagaaagcag gcttcagcta taaaaaaaga ggagttagtg gccagatcgg   780
aaacacatgc tgccgggcat tctcaggaga agacacatag ccgagagaag agtagccagg   840
agagtggaga ggaggcaggg agccaggaga atcacccca ggagtctaaa ggccaacccc   900
gaagccagga agaatctgag gaaggtgagg aagatgccac ctctgaggtg gacaaacgac   960
gcacgaggcc cagacaccac cacgggagga gcaggcccga caggtcctct caaggaggga   1020
gtcttccctc tgaggaaaag ggacacccc aggaggaatc tgaggagtca aacgtcagca   1080
tggccagttt aggggaaaag agggaccacc attcaaccca ctacagggct tcagaggaag   1140
aacctgaata tggagaagaa ataaagggtt atccaggcgt ccaggcccct gaggacctgg   1200
agtgggagcg ctatagggggc agaggaagtg aagaatacag ggctccaaga cctcagagtg   1260
aggagagttg ggatgaggag gacaagagaa actaccccag cttagagctt gataagatgg   1320
cacatggata tggtgaagaa agtgaggaag agaggggcct tgagccggga aagggacgcc   1380
atcacagagg caggggaggg gagccacgtg cctatttcat gtctgacacc agagaagaga   1440
aaaggttctt gggtgaagga caccaccgtg tccaagaaaa ccagatggac aaggcaagga   1500
ggcatccaca aggtgcgtgg aaagagctgg acagaaatta tctcaactac ggtgaggaag   1560
gagccccagg gaagtggcag cagcagggag acctgcagga cactaaagaa aacagggagg   1620
aagctaggtt tcaagataaa caatatagct cccatcacac agctgaaaag aggaagagat   1680
tagggggaact gttcaaccca tactacgacc ctctccagtg gaagagcagc cattttgaaa   1740
gaagagacaa catgaatgac aattttctcg agggtgagga ggaaaatgag ctgaccttga   1800
acgagaagaa tttcttccca gaatacaact atgactggtg ggagaaaaag cccttctctg   1860
aggatgtgaa ctgggggtat gagaagagaa acctcgccag gggtcccaag gctggactga   1920
aaaaggcaat atgacagggt gcccccactt gaaccagctc cttcactaca gaaagaagtc   1980
agcttgagtt tccagacttc tatgattctg aggagccggt gagcacccac caggaggcag   2040
aaaatgaaaa ggacagggct gaccagacag tcctgacaga ggacgagaaa aagaactcg   2100
aaaacttggc tgcaatggat ttggaactac agaagatagc tgagaaattc agccaaaggg   2160
gctgactgtc attggagcgg tgggcactgt taagaagcag ccatcacatg atctgttttt   2220
caccacttca ctgaaagaca ccatttatct acccaagggc agaaagtaga acttactatt   2280

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cattaaatgt ttgacacaat tggaattgtc tttaatttct gtcagaatgc tattgaaaat    2340
gtgaattgca tgacttgtag catattcttt tctgcaaaat agacatatta acatgcttat    2400
gacaaatgac ttgtgctact tgtctttttgg gaaaatgttt gtctcagttg gaaataataa    2460
aagattcacc tgagaccaaa a                                               2481
```

<210> 5827
<211> 2793
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2794)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2515)...(2217)
<223> similar to gi3850063 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5827

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gagccaggag gggagaggtt agtgttcaaa ttgctgagat cttaggtcaa aaagctacag     120
aaaagaaatc actttgaaaa acacaatgac tcagaggcag tcaccccttg ccagcaattc     180
caagagctga ggaggcttca tgcctcagga catggtgact agttgagtga accagagatt     240
gaggcagtgg tttttacagg ggaagaaaca agccttgggt gtatgggagc aggaaaggag     300
ggtgacagac tggagaaatg ataaaggcca ttttggaagc ccacaggaa gtggtcttgg      360
gaaacctgaa gacactggga tattcagaag gccaagggga tccagcttat cctgttgggc     420
aaggtgctgg gagtgaaggc aggtaagcca tgtcaagggc ctgggaagca aggggaaaac     480
tggaaggggt accccaggtg aagaagggta tggaatgggg tgcagaagtc catggagatg     540
accggcagat ctcagggcgg tttctggcac atcagaagtt gggcttatgc ttcttgagct     600
ccaccataag gtggtgaatg ttgatgagct cagcccgggc agggagggct cggagctgcg     660
gctgggacag gcacccggtg gaagcgatga tagaggctgg atcagctggg tcagcgctcc     720
ctgaatgata ctggtgccat ttctgaagtt ggtgaaactc cgcattacat cctgactcag     780
agattccact gatgatttcc aggaactacc aaagccacgg atcagctgag ttacccgggc     840
ttcttcccct cgaagtcgct cagcctgtcc acgctcaatc aaagcctcag cctccttcac     900
aaatgccact aaaccccccaa aagggggaga cagcaactct tcaatgaatt cctgtgtccg     960
agcattgagc agctgctgga agctctcaac ctctttgctg tcatctgcag cccgctccta    1020
ttaccatcag cacacccagc atcatgtcat agttgttgat cagaaacaca agctgctcct    1080
tccttgagga gaactcagct gccactcgga ggacaaaatt ctccacctcc acctgcagct    1140
gtcccagcaa ttgcatggtc cgttcattag gaattgtctg gttgatactg acaagagcgg    1200
aggagaactc tgcatagcgg cgtgtgatat agtggggccg agtatccaac cccctaggc     1260
gctgggggtc agtgcttcgg acgctctgaa cattcatctc caggatcagt tcaaaccgtg    1320
gccatagcaa ggcaagcacc tgttcccagt acctgtccag ggcaggaaca tccctctttg    1380
ctgcaatgtt acggaaccgg agaacaatgt ggatacagag aaaaacagca atggcatcgt    1440
agcagtcagc tagataagaa tccaggtgtt tcaggtcat gctgagtgta cggcccatga     1500
cagcatggaa caggtcgtgt gcagctgggc cagacacaac aaaaaattca cagatgaaaa    1560
ggtattcgcg gcaggaattg tctaggaggg cgtagtgctg gctgcggaag agggcctcaa    1620
atggatacct ctgctctccg cgctgcgctg tgtgaggcac caggatgggg gcctcaagtt    1680
```

```
cagtggggga gatgacagag ccgcgggttc ctaggtgaa aatggtgttc ctgctgcgga    1740
gcgatggctt tgagaagaat cctttctttg ctgtatcttc cacacccatt agatcatctt    1800
tctcagcgac ttcctcatac tgcaccttca tgagccgccc caggtaagag cggtagtaag    1860
acaggtaaat cttgctcagc gtctccacat attcatccct gatctccttt gctgttgctc    1920
gttcattgcc cagcagaaac tgatagaaga acctgtactt cagcagggcc gtctgggga    1980
tctgatagtt ggtcatgggt ttcctgaagg aataaatctt ctggaggata aactctcgga    2040
tcttcgtcac tgccttgacc cggagccgat cgagcacgcc tctgacatct gcgcaggctg    2100
ctgtgcctct agcttcctgc tctctgactg cggctgcctt ggcatccagc tcctgtagct    2160
gctccaagaa cctgggctct gtcactggag cctccagaat tgccgtgacc agagcagaag    2220
gcaccaccag accatcaaca agctccccaa gtttcccccg aactgcctgg cgatttcgaa    2280
gtcgaatgtt catggctcct gactgttcct gcagtgtccg gatctcagag ctgatggagc    2340
tgaggtcact ctgaaaagct cccaacatct gctccattcg ctccaggaca gcatcacagg    2400
ctgtgatctg gttgtgtaga gatgctatat tctcactctc ttgaatataa tcccgaatgg    2460
atttctgttc aatctgctgt agctccagct caacttgctt tgaatagtga cggagatcta    2520
cacccatcca cttcatccag gatgaattca tcagaagtga tatccaactc cccaagttgc    2580
agtggttcct ggagcccagg accacccgct tccggcaact gtcagtcccg gcgagtccgt    2640
tccccggagt ggagctacaa gtcccaaagg gtcttcctca gcgcgaaatc gttcccagat    2700
atttgagata agttgtttga ctccagctgt cccctttcag ctctaaccac tacgaaatcg    2760
tcgacccgga aattnnnngc ggtcacagat ggg                                 2793
```

<210> 5828
<211> 1711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (359)...(1357)
<223> similar to gi642486 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5828
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ggcttccgag ggctgtgaga ggaagaaggg ccaacgctgg gggtccctgg aacgacgggg     180
gatgcaagct atggagggg aggtgttact cccagctctc tatgaggagg aagaggaaga     240
ggaagaggag gaagaagagg tggaagaaga agaagaacaa gtgcagaaag gtggcagtgt     300
tggctctctg tcagtcaaca agcaccgggg actgagcctc acggagacag agctggagga     360
gctgcgggct caggtgctgc agctggtggc agaactggag gagacccggg aactggcagg     420
gcagcatgag gatgactcct tggagctaca ggggctcctg gaggatgaac ggctagccag     480
cgcccagcag gcagaggtgt tcaccaagca gatccagcag ctccaaggtg agctgcgttc     540
tctacgggag gagatttccc tgttagagca tgagaaagaa agcgaactta aggaaataga     600
acaggaattg catttggccc aggctgagat ccagagtctg cggcaagcag cagaggattc     660
cgcaactgaa catgagagtg acatagcatc cctgcaggag gatctctgcc ggatgcagaa     720
tgaacttgaa gacatggaac gcattcgggg agattatgag atggagatcg cctccctccg     780
tgcagaaatg gaaatgaaga gctctgaacc atccggtagt ttaggtctct cagattactc     840
tgggttacaa gaagaactgc aggagctgcg ggaacgctac catttcctga atgaggaata     900
ccgggccctg caggagagca acagcagcct cacggggcag cttgcagatc tggagagtga     960
gaggacacag agagcaacag agagatggct gcagtcccaa acactgagta tgacgtcagc    1020
agagtctcag acttcagaaa tggatttctt agagcctgat cctgaaatgc agttgttacg    1080
```

```
gcagcagcta cgggatgctg aagagcagat gcatggcatg aagaacaagt gtcaggaatt   1140
gtgttgtgag ttggaagagc tacagcatca tcgccaggtc agtgaggagg agcagaggcg   1200
gctgcagagg gagctcaagt gtgctcagaa tgaggtgctt cggtttcaga cctcccacag   1260
tgtcacccag tcatcccta ccccaatcc ccccatcttc tccttgcctc ttgtaggccc   1320
tggtggtcat ctcggctttg ctctggtgct ggtgggctga gacgtcgtcc taatgcagaa   1380
catgtttggg ttgtggaagc ctatggtatt cttggctatt gcagctgtgg ctctgtatgt   1440
gttacccaac atgcgacagc aggagtcaga gttctgcctc atggagtgat ggcagacctt   1500
ggccagcgcg agggcagatc cccagtggcc accaccctca gctttgggca ggacacactg   1560
tgccagaacc ctccccatat gttccatgtg tccccatctc ctcagccctc agtcacccag   1620
gctgaaaagg cttgtgggga gcggctgact tccatctcct gccttgtgta agaacctgag   1680
ttcccttgta attaaatatc aactgaatta c                                  1711
```

<210> 5829
<211> 925
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (79)...(777)
<223> similar to gi3128208 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5829
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tttcgtgggt actggggcgt gcgtgaggcg tttactgatg cttcctggtc cggtggcctc     60
ggtcccggta agccaggcat gaagatcaca aggcagaaac atgccaagaa gcatcttggc    120
ttcttccgca acaacttcgg agtccgcgag ccgtaccaga tcctgctgga cggcaccttc    180
tgtcaggcgg cgctgcgggg ccgcatccag ctgcgggagc agctgccccg ctacctcatg    240
ggggagacgc agctgtgcac cacaagatgt gtgttaaaag agctagaaac attgggaaag    300
gacttatatg gggcaaaact gattgcacaa aaatgccaag ttcgaaattg tcctcatttc    360
aagaatgcag tgagtggatc agaatgtctg ctttccatgg ttgaagaggg aaatcctcat    420
cattattttg tggcaacaca ggatcagaat ttgtctgtga aagtaaaaaa gaagcctgga    480
gttcctctca tgtttattat tcagaacact atggttttgg acaaaccttc tcccaaaaca    540
attgcctttg taaaagcagt gggagtcaggt cagcttgtct cagtgcatga gaaagaaagt    600
atcaaacatc tcaaagagga acaggggttta gtgaaaaaca ctgaacagag gtagaagaaa    660
aaagcgcaag aaaataagtg gtcccaatcc tcttagttgt ttgaagaaaa agaaaaaggc    720
accggacaca caatcatctg cttctgaaaa gaaaagaaaa agaaaaagaa ttcggaacag    780
atctaaccca aaagtacttt ctgagaagca gaatgcagaa ggagaatgaa tcctttggat    840
actttcaagg acattcaaat gtgaaaatga attttttaca actagaagta tttataataa    900
aagaccaaac ttatttttgt aaatg                                          925
```


<210> 5830
<211> 2129
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> (1983)...(1659)
<223> similar to gi2887314 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5830
tttttttttt ttagaaaaac atttattgta atcgatcaca ttcaagtcgt agttctgaaa   60
gcaaagtgaa aacacacagt acagctatgc ctcagtatcc atggggggatg ggttccagga   120
ctgcaacctc aaccctcaga caccgacatc tgaggatgct caagtccctg atgggcaatg   180
gcatagcgtt tgcacgtaac ctacgcacac cttcctgtat aatttaaatc atctctagat   240
ttcttataat accaaataca atataaatgc tatgtaaata tgctacacca tattgtttag   300
ggaataatgg caagaaaaaa aggtctgtac gtgttcagta ccaatgcaat ttcttttttc   360
aaatatttcc tatccaaggc tggttggatt taaatgtgga gaccacagtt acggagagct   420
gactgtactg gggaaatctt tagggtagaa acattttta gagatggttt atatcacccc   480
ccttcagaaa gagcaataca ggcatacctc attttactat gctttgtgaa tactgttttt   540
ttttttaaa ttgaaggttt gtagcagcct ggcatcaggc aagtctattt ggcaccattt   600
tccaacagca tgtgctcact ttgcgtttct gtgtcagcat tttgaacagt aaatattttt   660
aaattaaggt ttgtatattt gttagacata atgctattgc acatttagtg gactgcaata   720
tgcagtaaac atgacttaga tgcactggga aactaaaaca atgcgcttcc ttgctttatt   780
gtgatgttgg ctttaccgag gtggtctgga actgaaccca caatatctcc gagatatacc   840
tgtacttttt actaaaaata tttcatttga gaagtaaacc tcaagaacta ccaggacttt   900
tcagatggga agagcgaggc cctggcaggg cgagtctagg tgtgcagcct agtggggggcc   960
ggggtcaagt ccactcggta tttgtggctt cactcagcag gccgcccgtc ccctccgtgg   1020
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atgggctgct ccaaggccct gagaccccag gacctgcagg gggggtgggat ccagtcctgc   1140
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tcagcagacg cctccgaagc ctgcggcagg caggccttta ctcttcactg gggggccagt   1320
cagagggctg tcatggcagg ccagtgcaca tgccaccaac acatgctgct tcatcagtaa   1380
tttctggaac atgacactgc acagcggtgg cctctccagc gggacattac tagtaataca   1440
ctgatgatgt ggagattccc caggggggcat ccgctgggct tctcccaact cccaagccac   1500
ctcttcagaa tcacagagtc atttaaaggg gccccccacc tccccggagg tgcggcctag   1560
tcatcatact ggatctcggc ccgcagctcc ttggtgacgt agttcaccag catggccagc   1620
agctgctgct gcagggcctc gctgcccatg accagcgcag tcagctgcac ggcgtccgtc   1680
cactccaggt gcctgatgat ggctgcggct tcgttaaaga gcctctgttg ctcggcaggg   1740
ggcagctcca ttaggatctg aggaaccggc ttaaactgtc cacttgtcat ccaggcacct   1800
aacagccccc cgacagcccc cccaacggcg agtcccggtg ggccgcccac caaacccccg   1860
acgaaggcca tggccctgt gaccagggca cccttcccag agtgcttgac agccgccttc   1920
atcttcctct ccccagaaag ggagcacagc agcttcatga tgtcctccac catgatagtc   1980
atcgtggcgg gcttgtgtga cttcagcctc tccatgcctc agtttctcca tagggacaat   2040
gactacacta acagtgtcca ccccggcacc ggcagggcgg gctcccggca gggcggggac   2100
cctctcccca aggcactccc gggacgaaa   2129

<210> 5831
<211> 901
<212> DNA
<213> Homo sapiens

<220>

<400> 5831

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gagtacctgc tcttccgcgg gttcacgcac acactgcggc agctggacgc cgagatcaag    120
gcggacaagg agaagggggtt ccgggtggat aagattgtgg accagctgca gcagttaatg    180
caggtgtatg acttggctgc ccttcgggat tattggagct acttggagcg tcggctcttc    240
agccgcttgg aggatatata cagacccaca atccacaagc tgaaaaccag cctgtttcga    300
ttttatcttg tctacacaat ccagacaaac agaaatgaca aggctcagga gttctttgca    360
aagcaggcca cggaactcca aaaccaggct gagtggaagg attggtttgt cctgcccttc    420
ctgccatccc cggacaccaa ccccaccttt gctacctact tttctcgaca gtgggctgac    480
accttcattg tgtccctgca caacttcctg agcgtcctgt ttcagtgcat gccagtccct    540
gtgatcctga actttgatgc ggagtgtcag aggactaacc aggttcaaga agaaaatgaa    600
gttctgcgtc agaagctttt tgcattgcaa gctgaaatcc accgactgaa gaaagaggag    660
caacagccag aagaggaaga ggccttggtc caacacaaat tgcctcctta tgtctccaac    720
atggaccgcc tgggggactc ggaacttgcc atggtgtgca gccaaaggaa tgcctccctc    780
tcccagtcac ttcgtgtggg cttcctgtcc tcgctgctgc ctcagagtaa gaagagcccc    840
tcaaggttgt cgcttgctaa ggcccttctt cacctcagag ctcgggccag aaagaagcct    900
c                                                                    901
```

<210> 5832
<211> 2463
<212> DNA
<213> Homo sapiens

<220>

<400> 5832

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cttccgaggc gatcaggcag catcagtcct cagccgctaa gccaagaagt agtcagtcag     60
agagccttgg gccagagttc caggggctct gggagtggct accaggtgag ttgaacagtc    120
cgatttccag tggagtctgg atttgaaatt ggtgagatgt ttcttgggtt ggtcggtatg    180
agtacatgag gtcgtaggtg gatctttctc acggaccaaa gagcaggagg acaggggatt    240
gatctccgaa gggaggtccc ccaatttgag tctcggcacc aaatttcatg cacgtccatg    300
tgaagagacc accaaacagg ctttgtgtga gcaacatggc tgtttatttc acctgggtgc    360
aggcaggctg agtctgaaaa gagagtcagc gaagggagat aagggtaggg ccgtttata    420
ggatttgggt aggtaaagga aaattacagt caaagggggt tacccgaagc tcggcgtccg    480
tgatggtcta gggggcttcc gaggcgatcg ggcagtgtca gtcttcagtc gctaagccga    540
gaagatctgg gaaggaattg caactttttt ttttattatt gtacaccttg aaggtgaggt    600
taattaagtc ctgttgtggg gtttgaggga aacaggccct tgaaaagaag gtaatgtgga    660
gcgggtagcc tccgtattga ttaagaaggg gacgggctta ccttccactg tgagagttac    720
```

```
cggaagctcg gcgtccgtga tggtctacgg ggcttccgag gcgatcgggc agcatcagtc      780
ttcagccgct aagccgagaa ggagtcagtc agagagcctt gggccagagt tccagggact      840
ctggagtggc tgccaggtga gttgaacagt ccaatttcca gtggggtccc gcacagatgg      900
gacacggctt aggaggaatc ctgggctgca tgcattcctt ggcctggtag tcagatttct      960
ggcacttgta gcaagctcct ggggggagaag gttctggagt aacgcctggc cgctgcggtt     1020
caggcatttg gaagttcttg tgtgctggag atgtggctgg ggtttgtctc acagtggagg     1080
ttacctaacc aaactcctgc aaaaccacac cacctatgcc tgtgatgggg actatttgaa     1140
tctacagtgc cctcggcatt ctacgataag tgtccaatcg gcattttatg ggcaagatta     1200
ccaaatgtgt agttcccaga agcctgcctc ccagagggaa gacagcttaa cctgtgtggc     1260
agccaccacc ttccagaagg tgctggacga atgccagaac cagcgggcct gccacctcct     1320
ggtcaatagc cgtgtttttg gacctgacct ttgtccagga agcagtaaat acctcctggt     1380
ctcctttaaa tgccaaccta cttcagatga attaaaaaac aaaaccgtgt gtgaagacca     1440
ggagctgaaa ctgcactgcc atgaatccaa gttcctcaac atctactctg cgacctacgg     1500
caggaggacc caggaaaggg acatctgctc ctccaaggca gagcggctcc cccctttcga     1560
ttgcttgtct tactcagctt tgcaagtcct atcccgaagg tgctatggga agcagagatg     1620
caaaatcatc gtcaacaatc accattttgg aagcccctgt ttgccaggcg tgaaaaaata     1680
cctcactgtg acctacgcat gtgttcccaa gaacatactc acagcgattg atccagccat     1740
tgctaatcta aaaccttctt tgaagcaaaa agatggtgaa tatggtataa acttcgaccc     1800
aagcggatcg aaggttctga ggaaagatgg aattcttgtt agcaactctc tggcagcctt     1860
tgcttacatt agagcccacc cagagagagc tgccctgctg ttcgtgtcca gtgtctgcat     1920
cggcctggcc catcacactg tgcgccctgg tcatcagaga gtcctgtgcc aaggacttcc     1980
gcgacttgca gcctggggag ggagcagcct ggtgccagga agtgacaagg tcgaggagga     2040
cagcgaggat gaagaagagg aggaggaccc cctctgagtc tgatttccca ggggaactgt     2100
cggggttctg taggacttca tatcctatat acagttccat agaagctgca gagctcgcag     2160
aaaggattga gcgcagggag caaatcattc aggaaatatg gatgaacagt ggtttggaca     2220
cctcgctccc aagaaacatg ggccagttct actgaaaacc acatgcatct tgatgcgatc     2280
gcactttctg aagaaggaag gatcccaaat gcccctccag ttctggttca cctgtacctt     2340
ctatgaagga gaattcgtca tgtcattcaa cactcgtgag gccaggaagc tattaaaggg     2400
atgtttcaag ctgtttctag cacattccaa aataaatgag gagggaagag tcaaaaaaaa     2460
aaa                                                                   2463


        <210> 5833
        <211> 1403
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (27)...(1269)
        <223> similar to gi4321845 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 5833
        gtttcgtctc gaacttggtc ggggcgcgga tcccgagagg gaaagtcata acaaccgcac       60
        gagggagttc gactggcgaa ctggaaggcc acgcctcctc ccgcctgccc cctcagccct      120
        gtggctgggg gcagagctca gactgtcttc tgaagattga tgtctatttc cttgagctct      180
        ttaattttgt tgccaatttg gataaacatg gcacaaatcc agcaggagg tccagatgaa       240
        aaagaaaaga ctaccgcact gaaagattta ttatctagga tagatttgga tgaactaatg       300
        aaaaaagatg aaccgcctct tgattttcct gataccctgg aaggatttga atatgctttt      360
        aatgaaaagg gacagttaag acacataaaa actggggaac catttgtttt taactaccgg      420
```

```
gaagatttac acagatggaa ccagaaaaga tacgaggctc taggagagat catcacgaag      480
tatgtatatg agctcctgga aaaggattgt aatttgaaaa aagtatctat tccagtagat      540
gccactgaga gtgaaccaaa gagtttatc tttatgagtg aggatgcttt gacaaatcca       600
cagaaactga tggtttaaat tcatggtagt ggtgttgtca gggcagggca gtgggctaga      660
agacttatta taaatgaaga tctggacagt ggcacacaga taccgtttat taaaagagct      720
gtggctgagg gatatggagt aatagtacta aatcccaatg aaaactatat tgaagtagaa      780
aagccgaaga tacacgtaca gtcatcatct gatagttcag atgaaccagc agaaaaacgg      840
gaaagaaaag ataaagtttc taaagaaaca aagaagcgac gtgatttcta tgagaagtat      900
cgtaacccccc aaagagaaaa agaaatgatg caattgtata tcagagaaaa tggttctcct      960
gaagaacatg caatctatgt ttgggatcat ttcatagctc aggctgctgc tgagaatgtg     1020
tttttcgttg ctcacagcta tggaggactt gcttttgttg aactgatgat tcaacgagaa     1080
gccgatgtaa aaaataaggt aactgctgtg gcattgacag actctgttca caatgtgtgg     1140
catcaagaag ctggcaaaac gattcgagaa tggatgagag agaactgttg taattgggtc     1200
tctagctcag aaccattaga cacatcagtg gagtccatgc tacctgattg cccccgggtc     1260
tcagcaggca ccgaccgtca cgagctaact tcctggaaga gctttccgtc tattttcaaa     1320
ttctttaccg aagcctcaga ggccaagacc agctccctga agccggctgt gacgcgccgc     1380
tcccaccgca tcaagcacga atg                                            1403
```

```
        <400> 5834
tttttttttt ttgcaatact gtaacgacag cttattcttt aataaaagtc aggggtgtca       60
gcagcgtcac tggtaagaca tgatggcgct ccacgactga ccagcagcgc tgggaaggga      120
cacgcagaac ccaccttcca accacgccca acacatcaca gaaatgcctg ctcgtttgtt      180
ttgattcata tacaaagtta caaagtattt cctgccccaa attcttaacg aaaatgaaag      240
aaaaaccta aaatgcggtg gttttacaag tatattagcc cagaacatcc tagggcagct      300
gcgcgggccg cgggtgcggc agggcgcagg cgcaggcacc gcagagcccc ggccagcgcg      360
aaacggacgc aggcgcattc cccagccctc cgtggcgttc tcagcagcag atcgcccagg      420
cctggcccgg tcgggcttgg tgttgcctcc gaagtcgaga cgacggtgct gctcagttat      480
cttccgcctt tccgcactat ggtgggcagg cgacactgct gcggggcagg cttaaggtcc      540
cttccgcgga tctgtcttct tgctcgcagg gatgcacttt cagggtctca gcaaccgcac      600
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tctcttggga cggtcctcct cttgctttag ggactgtttc tctgttcttg gaagtagggg      780
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caggagggag aggcattgtg gggacaaatt ggttgttagt agaggtattc ctgatccctt      900
tttaaaagga aaatcaaaat tcatagctct cgactgtttg aacttggtga ggatcttctg      960
agcgggtgtg ccgatgacat cgtggatttt tgagatttgg tccagttcat ttactccagg     1020
aaagaggggc tgcagactgg cgatctcgta gaacacacag ccggcgctcc acaggtccat     1080
cttgtacgtg tagaacccat cagtgaggag acactccggg gcccggtacc agcgggtgga     1140
gatgtattcc gtgtacggct gcttggaata gacactccgg caggagccaa agtcccctaa     1200
```

```
tttcaggaca tcctttatta gtatatttc tggttttaca tctctgtgaa atattccatt    1260
tctgtgaata tgatccaggg acttacataa ctggtacata tagtgcataa tttttttttc    1320
tgataatggg tatcttctcc ctcgtattag ctcataaata ttcatgtcca taagttcaca    1380
tattagtgca agagaaccag attttctgtc actttcaaag cgctgcttca tttgtttaca    1440
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tcctattttg ccaattgctt tatagttctt catcttggat gcggaagccg gtgacaaccc    1560
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cctgaggcgg ggtcccgcac taggatctcc gtggtggtcc ctcgaaggag agcgttagag    1680
atcccgccgc catgttgtgt ccctgtcacc ctagcaaccg tcaggccctg aacgccacgc    1740
aatcgtctct ccggccttcc gtggccggtc cctcacgcat gcaatctatg g    1791
```

```
        <400> 5835
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tcggctcact gcaacctctg cctccagggt tcaagccatt cttctgcctc agcctcccga    120
gtagctgaaa tttaccnggt actacccacc atgcccggct aattattttg tattttatt    180
agagatgggg tttcaatcat tttggccagg ctggtcttga actcctgacc tcaggtgatc    240
ctcggcctcc caaagtgcag ggattacaag tatgagccac tatgcctggc caaccaacaa    300
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ttctagagca cagaaagaat agattttgca taattcttaa gggccctgag attttcagag    480
tggtcaatga gcactggctg taacttaaag tcaccagctg cagtgctcct caaagagagt    540
cagcccatcc tttgaagttt tgaagccaag cgttgacttc tctctagcta tgaaaattct    600
gcatcttcac taagcttaat catttctagc tctggactta aagtgagaga cttgcaagtc    660
ttcctttcat ttgagttctt tgaggccact gtggttacta attagcaccc ctggtgggtg    720
tcaccctcct ccctcctcta tcgagttcac ctacaccggg gcgtggggaa aggcgcttcc    780
tgcaccccac atgccctgcg ctcctggggc tctcccacag ggggctttcg tgagccaggc    840
agcaagggcc atcccctgc tccagcccag ccaggcagcg caggcagaag gactctccca    900
acctgcccgg gcatgcgggg ctttgtgttc actgccctgg cccctccgaa actggggatc    960
tcccatcctc agactccctg gtggcctccg aaccccaaca aatgacagga agaccagaac   1020
ccgcagcgcg atggcctgct gggcgcgtgc tcagtgggac accttggggc ccctcaagct   1080
gagtcacagg ggaaaggtgt gcttgcgcca cccacgtccc accggagtcc gtggtgggcc   1140
tggagccgca ggtcgccagg cggcatggg aacccgaaga cggggcacct tcacctccgg   1200
agctcgtgac cccggaggcc tccgcgtcaa gcacagatgc cagccaaccg ggcacctccc   1260
aaccgctcca ggagccgggg ctctcctctg cactcacctc cagcctgtta gatgagctcc   1320
```

4376

```
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atccctgagt tccaggtcca gcgagagact ccacacagag gagggctgtc aacaatgaca      1620
agaaagcatt cctgagcatc ccggggatcc cagggctggt cccaggtaca gggaggtagg      1680
ctgtcctaac tgcatgcgcg ggtttcccag cagcagccta ggatttctaa ctatcccagg      1740
cggagctctc atccctttt cccccgcgtt cttcagtcgg gttggcggag acctcagtcc       1800
gcgaaacact gggccagggc agaagccagg ccagttctcc tttctgcggc tcgactcctc      1860
cgcctcttcg ctcaccatca tgttgccaac ccgtgtcccg ccagcctcct cgccagcacc      1920
atagagcgcc ttgcaactaa ataaagaccc cagacctcgc gcaaaccagg gtgctgccct      1980
ttccaggcaa gagggaaggc aggcagagat gaggacagga acggagacag agtgagatgg      2040
aaggatggag ctaggcaagg atgggtggaa ggagggaccc cggaagggag agaaagaggg      2100
agggaggggag aaagggagga aaaagccagg ggaggggaggg aagaacagat ggaaggatgg      2160
accaagggac aaaaggagca agaagcagag aacggaaggc agagacaaaa acggtcttat      2220
gcctccagaa ccaacaggac ccagaactcc gggaaaatgt tgggtgccca gtacaggctg      2280
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cctgggttac ttcgtcccgg agcaattcag accaattccg tttccgaagg aatgagcgaa      2400
ttccccagag agcaatgagc cgagacccag gtagttgtct gtttttcatc cacatggttc      2460
acagatgaca tatccccacg ttgagccctg caacagagct cgaggcggat agtcccatcc      2520
acacaggagt cacactcagg ccaactgaag cgtgattctg gattccacgt ttctttgccc      2580
tctgtaaagg tgcctgttgc tcaagtttct gcccccgaa agcgtgacca tgttgactgt       2640
ttcgcgagct ctgtggggcc ccagaaactt ccaggaatgc gtggaagacc agcatcgtgt      2700
cggtgctctc ctttccagtt ttcaaacagg ctatattgga gactccccat tttgcaggaa      2760
acaggaatcc atcatcaggc cgtgatgcac gggatgtttc ttttctctgt ggtttcgctc      2820
tcgttgtcta cgtgaaaacg aacgagatga acacaactgc gtgtgtgaga ctatcacggc      2880
aactgtgaca cccaggcgtt ggcaatagag ttggcagcct gatcctggga caaaggtact      2940
gatggacatc cagacacacc ccaccacaat cactagcaaa cccactccca aacacacaga      3000
cacacacggg cgcacgcgcg ggaacacaag cacacacaca gacacacaaa gacacagaca      3060
acttgaagga gagcaaggga cagagggatg agaaatagaa acggaaggag agaaacagcg      3120
atggagagag agacagagag gaa                                             3143
```

<210> 5836
<211> 863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (234)...(486)
<223> similar to gi2145052 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5836
```
tggcgtgtga gtgcggggtg gggtggtggc cgttacgttc tgggcaacgg ctacggcagt        60
ggagaagtaa gaagagaaac aacgtccggc gcttccgcct tcgcttagga ggaggaagag       120
ctggtaggga aaggaaagtg cttcgccctg ggcctggact ggaccgagtc gggttggtgg       180
gggtctgggc tatgagcttt tgaggtcgc ctgggacgcg gagcgagaca cgagagccag        240
gagctatgtc tcagccgccg gcgccgccgc ctccgttgcc gccgccacct cctcccccctg      300
aggctccaca gactccgtcg tccttggcgt cggcggctgc ttcgggggg cttttgaagc        360
```

```
ggagagaccg gagaatcctt tccgggagct gcccggatcc gaagtgtcag gcgcgtctat      420
ttttcccggc ctccggttct gtcagcatcg agtgtaccga gtgcggccag cggcacgagc      480
agcaacagct gctggggtt  gaggaggtga ccgacccgga cgtagtgcta cacaacctgc      540
tgcggaacgc gctgctcggg gttacggggg cacccaagaa gaacacggaa ctggtaaagg      600
tgatgggcct ttccaactat cactgcaaat tgttgtcgcc catattagct cgctatggaa      660
tggacaaaca gacaggccgg gccaagcttc tccgggacat gaaccagggc gaactgttcg      720
attgcgcctt actgggtgac cgcgccttcc tcatagaacc agagcatgtt aacactgtgg      780
gctatggcaa ggaccgctcc ggaagcctcc tgtatttgca tgacactctg gaggacatta      840
agcgggccaa taaaagccag gac                                              863
```

```
      <210> 5837
      <211> 1168
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(1169)
      <223> n = a,t,c or g

      <220>
      <221> misc_feature
      <222> (123)...(920)
      <223> similar to gi21627 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters
```

```
      <400> 5837
attttttttt ttcacttcag actaaatttt attaaatatg gtgtcatttg gctacaatcg       60
gtttgtcttt ataaaactaa gtaacttatt ttgtagtaaa aacaacccca acccactgcc      120
cctctttggc agcccttgaa actcagttca aagctaggcc tggctcccgg ccatggcccc      180
tgctgccttc acctgctgag cgctctagga agcctcccaa atcccaagtg tcaggcccc      240
ggagtccatc acctctgcct caaacagcca agcccagggg ctttggggcc gcaggtatga      300
aggcccctcc agtagccaca cctgtgtcag ggctgtgccc tggggcctgg ccaacatccc      360
ccctcccctt gaaccatcag gaactgggca agacgcccac cagaggcttg accacagggg      420
gcgtgcatcc ccttctgagc ctgggagacc ctaggggagt gggtagcctg ggctggaccc      480
ctggtgggct tgtgttctgg atgtcgctat ggcactttgg tcctcaactc aaaccccccac      540
ccctacccag gagtctgaga cctcggcctt ccctggactt gttgggcaga aaaaggcacc      600
aaggacagga tgagaaaccc ggaggggcag ccccacaaat gagggcgctc tgacctgtcc      660
tcccattgcc accccaccca ggaacagccc ctcaactggt cacagccacc aggaagcccc      720
aggactgctc ccacaccaca gcagtgccct cttctccatc ccaccctcag gacctaccca      780
gggtcctcca ggcagccagg ggccagctcc aggacagggc aggagaatgc ggtccaggtc      840
tggcacgtaa ctgagggtgg gtatgctcca gagaagtaag gcaaatggcc cagatgacga      900
ccacctgggg tagacccagg gtctccaggg aatggctcgg gggcagacgc tgtgtctgtg      960
tgtgcaggat ctgcccccac cagcaggaaa ggggcaggag ggaggcaaag aggaggtgcc     1020
caggacttgt accctggctg ccaagcaggg tggggtgttt tcatgaggat tgcttttaac     1080
caaaagtcct cagccttctg cagacccagg gcagcggcga gttgctctac atcatgtgct     1140
ttacggaaat ccnccgcgct aatccaat                                        1168
```

                                    4378
```
```

<210> 5838
<211> 1345
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1346)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1287)...(295)
<223> similar to gi1263289 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5838

```
tttttttttt ttcctgtgta caaaatgttt aattttgaca aagcagttaa aaggctaggg      60
tggcccttct gcagccactg gtgactggga agagtgctct agggacactg gccacccccc     120
tgctcctgtc ttcagacctc tgctctggga ttgggtccaa ccctgtcctt tgcagccatg     180
tggcgatcct cagcatggag ctccttgcca ctgtcccca aaggggctca gtcgtccatc     240
ttcacgaaga ctttgggccg agaaaagatc ttgatggcct cctctacctg caccagcttc     300
cggtccagct cagcacggtg gctctggggc tctcagtgag tctgccccag caggcagcag     360
taccagctca cgcagcagct ggctctggct ctggagcagc ttggtcagtg tttccagccg     420
ctggttctca ggcatgcgcg tgtggcctgg gggcatggca gggtccggct ggctctgctt     480
gcgggcctcg gcctcccgcc gccacaggtc cctgcgctcc aacaagtaat gtggcacatg     540
gcccttctgc gtggcattgt agtgctcctg ggcctgccgc tgctgctcta gcacttgtgc     600
caggacctgc agtgagcagg aatgcctccg gggggctctc ttggcagctc gtgcattgtg     660
acgaatgaag tccacccccca ggcctggctc cttagcttcg ggacctggtg gggttggctg     720
gggactagat acatggggtg gtgggaggcc agggccgcag cgggagtgcg cccgcaggaa     780
gtgggcagac tctgtcccag aggcagggcc aggctcctgg agctgggcct tgacccggga     840
ctccaccttg tcgtacttgg gtgagcgcca cagagctttc aggggcctgg gctggccctg     900
ctcccggctg cgctcctgtt ctctgaagcg cttctgaatc tccctgatcc gcctcaggtt     960
ctccttctca tggtccttag ggtccttcct cttgagagag gccccaggac ctaggagat    1020
cccctcgagt tgcaacagca cgtccccgac gccgcgctgg ccgcgctcca ggatctctcc    1080
ggcaccggga ccgatgcagg ggccacgggg agcggtggtg tccagggccc ggtcggaagt    1140
cagcaagtcc agcttcagcg cgtttccctc gaggcgccct tgagccgagg tcggccgcct    1200
gtagttgtca ggacagagcg tcgggtctgg ggggatgggc cccgagatgc gggacgggcc    1260
ctcgcacatg ccgccggcgc cgcccagcaa cggtgcctga ctaanggtcc tcaannctag    1320
tgtctacaaa gggggcgggg cgcgg                                         1345
```


<210> 5839
<211> 3101
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

```
<400> 5839
ttgtatctag ctctccacca gcagaatggt ggtccgggca gcgttccggg aatcactctg    60
cctttgcatg tggtagtccg gagaagatcc tgattgccca catcagacag tgtgggctgc   120
agattcctta tgaggcagaa ataggttttc atcttttcca tgctccagag cttctctgat   180
ttgcttgggt aacctttatt ttctaagata aaggaggaaa tgatacgatc ccagtcttca   240
ttcttggtat caagcaaaac caggatcagg tcaaatcgac ttaagagtgg gctgccgagg   300
gcaatgttca cagacacgga ctcctggggg tcgtactggc ctttggggtt cgttgctgcc   360
aggatggtgg tccttgtgtt cagcttgcac acgaggtttg ttctccgcct ttgtcctaat   420
ccacaccagc aggtggagcc gcagttaaag tttccgagtc cattccggga gcgggagccc   480
atcttgctgg ctgccgaggc cctcgctgga ggaggagggt cagaactcgg gtgcagccaa   540
tcgagggcaa cgctgctact tataagagca gaatgggcng gnnctcgtag tttagtgaaa   600
taggaaagct gcaaaacact gtggagtgct cccgtgtaaa taaaaagagg aaaaaagttt   660
ctcaagtcgc cgctgcacga cgtctggccg gcgctggagc gggggtctgc gctctcccga   720
gcggccgcgc gctggacttt attgtgccgc aaccagcccc agttcccatt gtttgtgttt   780
ttttcaaaat atggcaaagg ttcaggtgaa caatgtagtg gtgctggata acccttctcc   840
tttctacaac ccgttccagt tcgagatcac cttcgagtgc atcgaggacc tgtctgaaga   900
cttggaatgg aaaattatct atgtgggctc tgcagaaagt gaagaatacg atcaagtttt   960
agactctgtt ttagtgggtc ctgttcccgc aggaaggcat atgtttgtat ttcaggctga  1020
tgcacctaat ccaggactca ttccagatgc agatgcagtt aaggcgtaaa ctggttgggc  1080
ctaattactt ggtacctatc cgaggacaag aatttattaa gaagttgggc taattaatgt  1140
aaataatgaa tatactggag acagaattaa ggggaaaatc caccagtaaa acccagactt  1200
ttcctaagct tcaaaggaat attttggcat cctaatcccc agggtcacaa gattccacat  1260
taattgggaa gataacacag aaaaactgga agatgcagag agcagtaatc caaatctaca  1320
gtcacttctt tcaacagatg cattaccttc agcatcaaag ggatggtcca catcagaaaa  1380
ctcactaaat gtcatgttag aatcccacat ggactgcatg tgaccaccta ccatcccttt  1440
agtacaaatt aagctattaa aaatacacag aactatttcc ctgaaattcc gtaagtacat  1500
agtcaaaaca caatgtgaag aatttgttta aaaacatcct gtagaaagtt tataagaaaa  1560
ccagtatttg aacaaattgt ggaatataaa tacaactatt ttaaggtaat ttttttctct  1620
aatgtgttat tttatttgtt ctgaaactaa tctgattaaa gcatatatat tattttcttc  1680
tcctttatat gtaatgaaag cacttataaa gaaacaggaa tcattagacc aggttgtaaa  1740
gatgtcttgg cctcccagac agtctttgga ccactatttt actggccttt gaaagaacaa  1800
agtttacttc aactaaaatg tttcttcctg tgaagacata tggtatcatt ttaatttaag  1860
gggcagattt ccattctttt ttggcatgtc cttaaaaaga ggatttgaaa tcaactatat  1920
gctaccaaga actttaggat ccaattttcc aagccaccgt gaagcctctt atggctacta  1980
ttatagttca tgagatgttg gacagcattt ggtttgtttg gtaagagaag aacaaatatg  2040
gctaattgtt aataaggtcc cctggctatg gttttttgttc ttataacaga gtttagaata  2100
tcagagcatt tcttgaatca tacatcatta ttgtccagtg aattcaagac caaatacaat  2160
atcgggagaa aatacaaact ccctgtgttt aagaataggg gattataatg gctcaaattg  2220
gttcatttga tttctaaaaa taccatgacc tttaaaaatt cttttaatag atcatgttat  2280
tggcagtatt tatataaaaa ccatggattt agaaggtat atttagcttt attataatag   2340
atacgttact attttggaaa tatatatatt ttcacacctg tagtactctt ccccatttcc  2400
tctgacactc atgcagaatg agatcaggca tatttgtggt tgacatactc tagatagctt  2460
ttccaacaaa tctttgaaaa gcaatcttgg aaaggaattc attaactaaa tggggtaaaa  2520
ggtttctttt tctttgagag ttaagtcctt cctcaaaaaa attttcttat gctccataaa  2580
attgaggtag aatatttttcc attattcttg ccagctaagc aagacagccc atatgatgca  2640
```

```
ggttatgcag tgccttcata tcttaaaact tttaatactg cacctttta aagctttat    2700
gttgagggca agggaaaagg ggcatttgtc gtaaacatgg attctgagtt gtatatattc    2760
cccatccatt cctaaaaaag tgaatttgtg aagcaaagtt ttgcccagat gttaaacttt    2820
gaatttaata taccagatta ttaaaatatt gtccattaac tagttcatag attttaaaag    2880
taaaatactt ctgactgtta aaactatata aagaaaatct catttgtcta attgcaatta    2940
aaagaaaaat gttaaaatat taaaatgaaa ataaaagcat tactttccaa caaagagctc    3000
agtggttaat ataataggaa caacatatgt gcttattaga aataaagcat atacagccaa    3060
atcaccaaat aaagccattt actgctgagt ttttatcgga a                        3101
```

<210> 5840
<211> 2829
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (217)...(1550)
<223> similar to gi1707274 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5840
```
cccacgcgtc cgacgaccac gggccggaag gctgccaggc ccagtgggca agcgaagaaa      60
tgaaccaccg caacgcgggc gcttcggggc ggggccgagt gcgaacctga gccccaaatc     120
ccgacccagg caggggcggg gcccggagcg gggccttgga ggcccagccc gcgcggcgac     180
gtctccgcgt ggcgtcacgg caccgactga cggccaccca ccatggccgc agaccagcgc     240
ccgaaggccg acacgctggc cctgaggcaa cggctcatca gctcttcctg cagactcttt     300
tttcccgagg atcctgttaa gattgtccgg gcccaagggc agtacatgta cgatgaacag     360
ggggcagaat acatcgattg catcagcaat gtggcgcacg ttgggcactg ccaccctctc     420
gtggtccaag cagcacatga gcagaaccag gtgctcaaca ccaacagccg gtacctgcat     480
gacaacatcg tggactatgc gcagaggctg tcagagaccc tgccggagca gctctgtgtg     540
ttctatttcc tgaattctgg gtcagaagcc aatgacctgg ccctgaggct ggctcgccac     600
tacacgggac accaggacgt ggtggtatta gatcatgcgt atcacggcca cctgagctcc     660
ctgattgaca tcagtcccta caagttccgc aacctggatg gccagaagga gtgggtccac     720
gtggcacctc tcccagacac ctaccggggc ccctaccggg aggaccaccc caacccatgt     780
ggaggatgga ctggaaaagg cattcagtta gaaacgtgtg gtccaaggaa gaaacaggca     840
aatctgcagg aggcagattg cagccttctt cgctgagtct ctgcccagtg tgggagggca     900
gatcattccc cctgctggct acttctccca agtggcagag cacatccgca aggccggagg     960
ggtctttgtt gcagatgaga tccaggttgg ctttggccgg gtaggcaagc acttctgggc    1020
cttccagctc cagggaaaag acttcgtccc tgacatcgtc accatgggca agtccattgg    1080
caacggccac cctgttgcct gcgtggccgc aacccagcct gtggcgaggg catttgaagc    1140
caccggcgtt gagtacttca acacgtttgg gggcagccca gtgtcctgcg ctgtggggct    1200
ggccgtcctg aatgtcttgg agaaggagca gctccaggat catgccacca gtgtaggcag    1260
cttcctgatg cagctcctcg ggcagcaaaa aatcaaacat cccatcgtcg gggatgtcag    1320
gggtgttggg ctcttcattg gtgtggatct gatcaaagat gaggccacaa ggacaccagc    1380
aactgaagag gctgcctact ggtatcaag gctgaaggag aactacgttt tgctgagcac    1440
tgatggccct gggaggaaca tcctgaagtt taagccccca atgtgcttca gcctggacaa    1500
tgcacggcag gtggtggcaa agctggatgc cattctgact gacatggaag agaaggtgag    1560
aagttgtgaa acgctgaggc tccagcccta agccagccct gctctgccta agtgtactcc    1620
agaagaaact catctcatcc aaatacacgc tattgagaag gcgagcctga cctccctctt    1680
acagataaag tcagctttca gaggctcagg gtgggggggc ctgcccgagg ccataatgct    1740
```
```
                                        4381
```

```
acccaccccc tcctcctaac cactggtctg ttggaataac ccagatgtct gcatccctc    1800
aagtcagtca atttcctttc tgtccactgg gggtggaatg gggtaggtg ggatactta    1860
aagtgctcct gcttaaataa attagaccag accagtgtat ttctaaagaa aatcctgaca   1920
tgcacaccca ttaaaaatag tacattttac agtgtcccag tcatactttt aattggcaaa   1980
ttaaaataat gcaatctgat atattctatc ctactaaatt aaaaatactg aatataacca   2040
actaaatata cttactccta agactcacta ccagtagttt cacttaaact ctgccttaga   2100
ggctcttccc acccatttcc cattatggca catagagaaa aaggcctcta tcactgtcca   2160
ctggagtaat aaccactgct tcccctaact gcctcaaaga ctgtcatttt atagaaaatt   2220
taagactatc ctaatccact ctttccaaac tcccagccag gatagagact tccaggagtt   2280
ccacctgtcc caccttatct ggctgccaac tcctgctcag aaacagaacc tgccacaccc   2340
tgccactgca ggccgcaacc tcaactccca actgccaact tgaagcctga actacccttt   2400
ccctgaccag agttcaggag gggaagagct acacctccct gcacatgaat ccactcattt   2460
gaaagcacaa ctgaccctgg atttaagctg gccaggaccc tgggagatct ttggaaggat   2520
ttttgcctgg gtttagggtt aacttaaaga ggtgcccaga agaccaagtg aggcagttca   2580
tgcctgtaat cccaacactt tacaaggcca aggcagagga tggcttgagc ccaggcaaca   2640
tggtgagacc aggctttaaa aaaacatatg agccaggcat ggtggtacat gcctgtggtc   2700
ccagctactc gagaggctga gatgggagga tccggtccgc ccatgaggtc aaggttgcag   2760
tgagccatga ttgtgttacc gcaccccagc ctggacaaca aagcaagact ctgtctcaaa   2820
gcaaaaaaa                                                           2829
```

<210> 5841
<211> 2320
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (337)...(1978)
<223> similar to gi915208 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5841
```
ggcttcaggc tttcaccagt tctcaggatg cccataggga tgggtgaagc ctgcctggcc     60
tgtggtgctt tccagtggcc gtcatttat tagggcccca cagtggcatt aggatgcacc    120
tctcggcggt gttcaacgcc ctcctggtgt cggtgctggc agcggtcctg tggaagcatg    180
tgcggctgcg tgagcatgca gccacactgg aggaggagct ggccctcagc cgacaggcca    240
cagagccagc cccagcactg aggatcgact acccgaaggc actgcagatc ctgatggagg    300
gcggcacaca catggtgtgc acgggccgca cgcacacaga ccgcatctgc cgcttcaagt    360
ggctctgcta ctccaacgag gctgaggagt tcatcttctt ccatggcaac acctctgtca    420
tgctgcccaa cctgggctcc cggcgcttcc agccagccct gctcgaccta tccaccgtgg    480
aggaccacaa cactcagtac ttcaacttcg tggagctgcc tgctgctgcc ctgcgcttca    540
tgcccaagcc ggtgttcgtg ccagacgtgg ccctcatcgc caaccgcttc aaccccgaca    600
acctcatgca cgtctttcat gacgacctgc tgccactctt ctacaccctg cggcagtttc    660
ccggcctggc ccacgaggca cggctcttct tcatggaggg ctgggggcgag ggtgcacact    720
tcgacctcta caagctgctc agccccaagc agcctctcct gcgggcacag ctgaagaccc    780
tgggccggct gctgtgcttc tcccatgctt ttgtgggcct ctccaagatc actacctggt    840
accagtatgg ctttgtgcag ccccagggcc cgaaggccaa catcctcgtc tcaggcaatg    900
agatccggca gtttgcacgg ttcatgacag aaaagctgaa cgtgagccac acaggagtcc    960
ccctaggcga ggagtacatt ctggtcttta gccgaaccca gaacagactc attctgaatg   1020
aggcagagct gctgctggca ctggcccagg agttccagat gaagacagtg acagtgtccc   1080
```
```

                                    4382
```

```
tggaggacca cacctttgct gatgtcgtgc ggctggtcag caatgcctcc atgctggtca   1140
gcatgcatgg ggcccagctg gtcaccaccc tcttcctgcc ccgtggggca actgtggtag   1200
agctcttccc atatgctgtc aatcccgacc actacactcc ctataagacg ctggccatgc   1260
tgcctggcat ggacctccag tatgtagcct ggcggaacat gatgccagag aacacagtca   1320
cacaccctga gcggccctgg gatcaggg 	gg gcatcaccca tctggaccgg gctgagcaag   1380
cccgtatcct gcaaagccgt gaggtcccac ggcatctctg ttgccggaac cccgagtggc   1440
tcttccgaat ctaccaggac accaaggtgg acatcccatc cctcattcaa accatacggc   1500
gcgtggtgaa gggccggcca ggaccacgga agcagaagtg gacagtcggc ctatatccag   1560
gcaaggtgcg ggaggcacgg tgccaggcgt cagtgcatgg cgcctccgag gcccgcctca   1620
ctgtctcctg gcagatccca tggaacctta aatacctgaa ggtgagggag gtgaagtacg   1680
aggtgtggct gcaggagcag ggggagaaca cctacgtgcc ttacatcctg gctctgcaga   1740
accacacctt cactgagaac atcaagccct tcaccaccta cctggtgtgg gtccgctgca   1800
tcttcaacaa gatcctcctg ggaccctttg cagatgtgct ggtgtgcaac acgtagcgag   1860
caggccacag cctggcctcg ggaaggtggc tcctgcagtt cagcgtccct gggcccatta   1920
atcccactgt ggagacttct gggaactatt tattgagcag gcctgtgcct ccacatcatc   1980
ttgttgtctc tggggtgtgg tgtcacagca ctcctctttg ccctagagat aagggacctg   2040
acttcccctt ctcccatcct gaacatttgt acccctggag aagttcctta gcaggggagga   2100
ggaagaggag aggaggaagc aaagaatcac aaggaacctc tggctaggtg atcctgatgt   2160
ttcctactga gtttttctgg tatccagatt tctggaaacc gagtaatcat gtactgtttg   2220
attgggtggt tcatctgctt ccatcccagt gaaatttacc tgtagcccag tgaagggtgt   2280
gtttggaaca ttcattaaat gattctaagc aaaaaaaaaa                         2320
```

<210> 5842
<211> 4331
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4133)...(2522)
<223> similar to gi1663704 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5842

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atctctgtct aggggtcaca aattgaaatg gcaagtgctt ttccattcaa tctaatactt    60
ccggattcct actaaaaagg aatacattaa gagcatggaa aagttgctta ctgaaaggaa   120
acccccgaag agtaagggag ggaatgtaga aattaagaag ttatgtggaa tactctttaa   180
attgtaatta actacatttt cttattttca cagtaataca aaacacagtc acttgcagaa   240
ctggttcaga ttacttaaat accagataca tttttagtcc tctacataag tgtttgggag   300
ttacttatgt ttatatgaaa tgaagctatt aatacttttc tactgaatat ataatatgat   360
cccatttatt taaaaaataa agattacata tttgcttata tacgcataca aattttctga   420
aaattacata agaaattgtt aatagattac ctctggagaa tagtactggg gtaagaggtg   480
aggggggcaga attctcattt tacagcctta tatactgttg tgaatttttt tttttaccat   540
gtactttta aaaatacaaa attgaggagg gaacctccta ctccaaaatt acgaagcatt   600
cttttatgta catttctcta agagttatat ttgatatttt tcaaggcaaa ctgacttgag   660
gtactcgatg tttttaaatg tatttctaat aattattagt agggtcacac ctatttgaca   720
gctttttaa aaagtcacat attgctgtat ttttaaagat gacaaacctt tatttaaatg   780
agatgcttgc tggagatttt cttttttcaaa ctcacttttt aagttatgga aataatatca   840
ctgctgaaag tttggaaaac atatataagg gtgccaaaaa taccactaaa atcacataaa   900
ccaatcttac cattattaat ggtgtgattt ctttctttac atatctatta atacctagta   960
```

```
ctatctatgt agaaaatgtg tttgcaaagc tgagatcaca ctgtacctat agctctggat    1020
cctgctgctt tttcccccaa cacttaacag atgctcagta aacatgttaa accaagttgt    1080
taattagtat tgtaccattt ctcctcatca aaaattactt ctatagaagg catttagttg    1140
gtttccagtt cttgagtaaa ataaataaca cttaatgagt atgtctttac ctaaacattg    1200
tctgcattta tgatttagaa gaagctactg gatcaaacgg tatgaaatat tttaagtttc    1260
tgataaatgt ttttcagaag aattatactg gttttcactc ctaccaacag cgcagcctgt    1320
gttgctgttt ccttgccaac actgtcacca ttttaaaaag tcactgttat ttcacaggta    1380
aaaaatagaa agtttgctct gagaaaattt cttcctccca ttacaaaata aagtcacagt    1440
ctttccgtat gtccactcta gagtgctatc ttccaatcta aaacagagga actgtttca    1500
aacatcatta gtttagcggt ctccactaac aaagacatac ggataaagta acatgtaagt    1560
cagattaaga atctcaactt tttaagaaaa accaaatgac taaaggcata ttttattct    1620
atacttttg tcctataggt actctaggtc cttgtgtaat tattgaggac aaaacgtcag    1680
ttaaaggtga gagggaaaac taggttgcag actagcagct gttttgcatc tcacaagaac    1740
aaaggcctta acaaaccgta tactttatgc aaacaaagtg atgcctcact gacttaggag    1800
acaagtcaca tgccatcagt gtgtcagaaa atttctttct tcagtgatag ttaaggtaac    1860
ctcgccagct actttccaga gacagctcca gggcaatact ggggaaaaaa aaaatcagag    1920
acataggacc tcaatagagc cctgtgcaac aaaaagatgc tagataacaa aactcaaagc    1980
aaaactaaga tcattccaat ttaggggaaa gtttttttat tcagtgttta agattaaaaa    2040
ctacaagatt ttgcttgcag ctgatgagta aaaagagaag ttaaacataa attctcatct    2100
gagtggctag ttaaaatgct ctgacaccga gtcaagttac tcagtgacat accagttact    2160
ttgggcttaa gagtcttgga gcaaagtagc tctaaacaaa acgtgtcatc tgaagcatag    2220
ggctaatggg catatgaaat actaaataag aagctgatgg aggcaggctg tggcagattt    2280
ttggttcttt tagggttcta gcagtggttg ccatataagc aaggacctag cagagagtta    2340
tttcctgtct ttactttct gagttaaaca ccttcaaccc acacccacta agcaggaata    2400
aagagacatt ttatagacca gttggaaaat ataaagcagt cccacttctc cagtagaatt    2460
ttagttgaat taaatcataa gagaaacaat gattattgca catattatac ttgtcacact    2520
acatctgttg agtggaattt ccattccaag tgttgttttc atcttcacca tcatcttgag    2580
tccttaatct ataaattttc ccctcctttt taaagtcgtc tccacgtttt tccagcactc    2640
tttttctcac tggttccctt ttttctgatt tgctagatga tgcagggttt ggggggttctg    2700
acgatgttac tctcactgaa gtctgtgtgg gaggcggatt actaaacaag aaattgctaa    2760
ttaatctcca gatggcaagg aatggataaa gcactgttcc caacaaggtc caaatgtctc    2820
cgctggaaga gtgtacaatg gatgcagttg gtcttcctgc ctagaaatta ataaacaaac    2880
tggcaacagt accaccgaag cgcttggggc aagttccaaa tccagtaact tcttttata    2940
atcttctttg gtaaattccc tcctgggaaa catggttgct aacgaaaaat taccgtaagt    3000
gttgccaaca gtctgtgcag caaactgcct tgcctcttct agaggagcat cagaagggaa    3060
ctgatttgta aaggaagaac catcaggaag acggaattga attcttgcaa cagtgcttct    3120
ttctcttgca taagattccc tcttgacttc catttctgcc tgttttgcta gcaaggcagc    3180
agctttggca gcctctactt cttcctttgt ctttgcaaaa cgagcagctc tctctgcacg    3240
gtccaatgca atctgctgtt ttatacgttc tcgagctgcc ctatcttctg ctttctctct    3300
gtttctttcc tccagcattc ttttttgttaa ttcttcttct tgttttcttt tataatccaa    3360
catttctttt ccagtttttc tcctctcaat ttccttctta atttctctct gttcttcctc    3420
ttttcttttc tcttctctcc tttcttcaag ttttttttgtt agtctttcca ctcggatgtt    3480
gaggtcctct gcaggtctct gatctgagca tccactaggc tcctgagagg aagtggcatg    3540
gcctgcactt tctcctcctg ttgcagtatc tgactttgta tcagaagtgg atggtatctc    3600
acaaagctct gcatttctgg actgagagtt ttcacaagtg ttgttaggtt caaatgacgc    3660
agatggagta gacactgaac tttctgactg actgccattt gctactgatg tttcactttt    3720
tagcaaatgc atctgtcgga ccttgtgaat tcttgtaaca agttcatctg cagaaacact    3780
tcctgctatt acttccaagg gaattccact gtctccaata aagaaactgg atggaacaca    3840
cactacagga tagatttgtg aaaactgtag gcaggcttca ctttggtat cgattttaat    3900
agcaacaaaa ctgtttgaag atgcttctgt aactttatca tcttcccaac ttgcagccat    3960
ctgtgtagac tgttcatcat cacctgccac gaacaccacg aagaccgcgc cgctccttt    4020
ggccgtcgcg atggcggccg gaatggcgcc ctggaaccac agcatcgctc ccttcgggcc    4080
caggcgctcg ctcggtgtgt agtctccgca gtcccgaagc cggctccgcc ctccgtcttc    4140
gtccggctct gcggccccccg caaccttggc tggttcggcc cccacctccg gctccgcaca    4200
agcgcgcacg cccgtcagcg gcacccggag acgcgcgcta gcgcgcgcga gaacacctca    4260
cgtcacagtc gcaacccgtc ggtgtccgtg ccccaggacc ttctctcgtt ggcgagtcga    4320
tggtcggcgc a                                                        4331
```

<210> 5843
<211> 2077
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (48)...(2079)
<223> similar to gi35483 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5843
cggccgcagc tccccggcgg aggcaagagg tggttggggg ggggactttg gctgacgttt   60
tcccgggcaa cgactccacg gcgtctcagg acgtggccaa ccgcttcgcc cgcaaagggg   120
cgctgaggca gaagaacgtg cacgaggtga aggaccacaa attcatcgcg cgcttcttca   180
agcagcccac cttctgcagc cactgcaccg acttcatctg ggggtttggg aaacaaggct   240
tccagtgcca agtttgctgt tttgtggtcc acaagatggt gccatgaatt tgttactttt   300
tcttgtccgg ggtgcggata aggggacccg acacttgatg accccaggag gcaagccaca   360
aggttccaaa atccacactt tacggaagcc ccaccttctt gcgatcactt gtgggttcac   420
tgctctatgg acttatccat caaggatga aatgtgacac ctgcgatatg aacgttcaca   480
agcaatgcgt tcatcaatgt ccccagcctc tgcggaatgg ttcacactga gaagaggggg   540
cggatttacc taaaggctga ggttgctgat gaaaagctcc atgtcacagt acgagatgca   600
aaaaatctaa tccctatgga tccaaacggg ctttcagatc cttatgtgaa gctgaaactt   660
attcctgatc ccaaggaatg aaagcaagca aaaaaccaaa accatccgct ccacactaaa   720
tccgcagtgg aatgagtcct ttacattcaa attgaaacct tcagacaaag accgacgact   780
gtctgtagaa atctgggact gggatcgaac aacaaggaat gacttcatgg gatcccttc   840
ctttggagtt tcggagctga tgaagatgcc ggccagtgga tggtacaagt tgcttaacca   900
agaagaaggt gagtactaca acgtacccat tccggaaggg gacgaggaag gaaacatgga   960
actcaggcag aaattcgaga aagccaaact tggccctgct ggcaacaaag tcatcagtcc   1020
ctctgaagac aggaaacaac cttccaacaa ccttgaccga gtgaaactca cggacttcaa   1080
tttcctcatg gtgttgggaa aggggagttt tggaaaggtg atgcttgccg acaggaaggg   1140
cacagaagaa ctgtatgcaa tcaaaatcct gaagaaggat gtggtgattc aggatgatga   1200
cgtggagtgc accatggtag aaaagcgagt cttggccctg cttgacaaac ccccgttctt   1260
gacgcagctg cactcctgct tccagacagt ggatcggctg tacttcgtca tggaatatgt   1320
caacggtggg gacctcatgt accacattca gcaagtagga aaatttaagg aaccacaagc   1380
agtattctat gcggcagaga tttccatcgg attgttcttt cttcataaaa gaggaatcat   1440
ttatagggat ctgaagttag ataacgtcat gttggattca gaaggacata tcaaaattgc   1500
tgactttggg atgtgcaagg aacacatgat ggatggagtc acgaccagga ccttctgtgg   1560
gactccagat tatatcgccc cagagataat cgcttatcag ccgtatggaa aatctgtgga   1620
ctggtgggcc tatggcgtcc tgttgtatga aatgcttgcc gggcagcctc catttgatgg   1680
tgaagatgaa gacgagctat ttcagtctat catggagcac aacgtttcct atccaaaatc   1740
cttgtccaag gaggctgttt ctatctgcaa aggactgatg accaaacacc cagccaagcg   1800
gctgggctgt gggcctgagg gggagaggga cgtgagagag catgccttct tccggaggat   1860
cgactgggaa aaactggaga acaggagat ccagccacca ttcaagccca aagtgtgtgg   1920
caaaggagca gagaactttg acaagttctt cacacgagga cagcccgtct taacaccacc   1980
tgatcagctg gttattgcta acatagacca gtctgatttt gaagggttct cgtatgtcaa   2040
cccccagttt gtgcacccca tcttacagag tgcagta   2077

<210> 5844
<211> 2268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2269)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (116)...(1880)
<223> similar to gi4877951 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5844
```
gccgagccga gctggggggcg cagagcgcgg gagggcggcg gcggcgcgga gcccaggtgg      60
ctccgctgcc ggatgggagt gccccagtgt gctggatgaa gctggcgcat gcaccatgtc     120
atcatgtgtc tctagccagc ccagcagcaa ccgggccgcc ccccaggatg agctgggggg     180
caggggcagc agcagcagcg aaagccagaa gccctgtgag gccctgcggg gcctctcatc     240
cttgagcatc cacctgggca tggagtcctt cattgtggtc accgagtgtg agccgggctg     300
tgctgtggac ctcggcttgg cgcgggaccg gcccctggag gccgatggcc aagaggtccc     360
ccttgacacc tccgggtccc aggcccggcc ccacctctcc ggtcgcaagc tgtctctgca     420
agagcggtcc caggtgtggc tggcagccgg tggcagcctg gacatgaacg gacgctgcat     480
ctgcccgtcc ctgccctact cacccgtcag ctccccgcag tcctcgcctc ggctgccccg     540
gcggccgaca gtggagtctc accacgtctc catcacgggt atgcaggact gtgtgcagct     600
gaatcagtat accctgaagg atgaaattgg aaagggctcc tatggtgtcg tcaagttggc     660
ctacaatgaa aatgacaata cctactatgc aatgaaggtg ctgtccaaaa agaagctgat     720
ccggcaggcc gcttttccac gtcgccctcc accccgaggc acccggccag ctcctggagg     780
ctgcatccag cccaggggcc ccattggagc aggtgtacca ggaaattgcc catcctcaag     840
aagctggacc accccaatgt ggtcnaagct ggtggaggtc ctgggatgac cccaatgagg     900
accatctgta catggtgttc cgaactggtc aaccaagggc ccgtgatgga agtgcccacc     960
ctcaaaccac tctctgaaga ccaggcccgt ttctacttcc aggatctgat caaaggcatc    1020
gagtacttac actaccagaa gatcatccac ccgtgacatc aaaccttcca acctcctggt    1080
cggagaagat gggcacatca agatcgctga ctttggtgtg agcaatgaat tcaagggcag    1140
tgacgcgctc ctctccaaca ccgtgggcac gcccgccttc atggctcccg agtcgctctc    1200
tgagacccgc aagatattct ctgggaaggc cttggatgtt tgggccatgg gtgtgacact    1260
atactgcttt gtctttggct agtgcccatt catggacgag cggatcatgt gtttacacag    1320
taagatcaag agtcaggccc tggaatttcc agaccagccc gacatagctg aggacttgaa    1380
ggacctgatc acccgtatgc tggacaagaa ccccgagtcg aggatcgtgg tgccggaaat    1440
caagctgcac ccctgggtca cgaggcatgg ggcggagccg ttgccgtcgg aggatgagaa    1500
ctgcacgctg gtcgaagtga ctgaagagga ggtcgagaac tcagtcaaac acattcccag    1560
cttggcaacc gtgatcctgg tgaagaccat gatacgtaaa cgctcctttg ggaacccatt    1620
cgagggcagc cggcgggagg aacgctcact gtcagcgcct ggaaacttgc tcaccaaaaa    1680
accaaccagg gaatgtgagt ccctgtctga gctcaagacc tagaaaataa gtccccttcc    1740
tgcctgttgc aaagtaacgt aagagttccc tcacccgagt ggatgcagac cttcttgctg    1800
tcagccaccc ttccttcata cacatagcca gcccaggtga ccagaacctc ccaggacaga    1860
tgaggctttg tgtccttatg agactgggag aacctgctgg gcacccctgc tgcaggtgct    1920
gtggtgggtg gggacccccac tgcccttccc actgagcaca tcgtggctac ctgacttggt    1980
gggagctcca ggcagtcact tctgtttctt aaacatagct ttactgaggt acaattcaca    2040
```

```
taccatgtaa ttcacccacg ggaagtgtat gattcagtgg tttctaatac agacttctgc    2100
agccattacc accatcaact ttacgacatt ttcatcagcc caagaagaca ccctacactc    2160
cttagctgtc cccatccaac tcccccaccc cagtaaccac tcagaatagg tatggatttg    2220
cctattctgg acgtttcgta taaatggcgt catacactaa aaaaaaaa                  2268


        <210> 5845
        <211> 2363
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(2364)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (2198)...(915)
        <223> similar to gi35435 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters


        <400> 5845
actataccga gagactgaag aagtggaaat atatgtggaa cagagccttc ctccatggta     60
tgaaatagat ttcctttaaa aaataaaaaa aaaagaagtg aacaatataa gcatattact    120
tagaaacatg gaggtatata cctgaaaaac tcaagagttg aaagtggtca cctctgggga    180
gtgggaatct tgaatgggag gaatgggctg gggctttttt gttataagcc ttgacttttt    240
aaattatgat catgtgtaac tgataaaaat aaaagttaga ataaaagccc tagcacaatg    300
tctgccataa agtaggccct tgataaagaa tggacattta tctaattgtc ccatctctcc    360
acggctgctg ccccactttt tgcattcagc aatatagaca tttgatccgt tcctcaagat    420
tctattctcc cccttcctaa caaagtatgg caggaaaaaa aaaaaatcac ggtttcaatg    480
gacactttta ttgtttactt aatggatcat caattttgtc tcactaccta caaatggaat    540
ttcatcttgt ttccatgctg agtagtgaaa cagtgacaaa gctaatcata ataacctaca    600
tcaaaagaga actaagctaa cactgctcac tttctttttta acaggcaaaa tataaatata    660
tgcactctag aatgcacaat ggtttagtca ctaaaaaatt caaatgggat cttgaagaat    720
gtatgcaaat ccagggtgca gtgaagatga gctgagatgc tgtgcaactg tttaagggtt    780
cctggcactg catctcttgg ccactagctg aatcttgaca tggaaggttt tagctaatgc    840
caagtggaga tgcagaaaat gctaagttga cttaggggct gtgcacagga actaaaaggc    900
aggaaagtac taaatattgc tgagagcatc caccccagtg aaggacgttt acacttcaag    960
gagctccaaa actgggcacc accccccag tgactcaaca tggctggact tttatcctcc    1020
ggtgttccca tttgggcaac agccaagtgg gcaggtgtct ccaaccaacc tatgatggtg    1080
atggcaagcc ccctagaagt ggatntgctt tcacccacct catccatgag agctttggtt    1140
ccccgggggca aaagcttccc attcaaatac ccccacagga ccattccaca caatctgctt    1200
agcccgagtg acagcctcag catacttctt gctgctttca ggaccacagt ccaagcccat    1260
ccagccagca ggtatgccag aagccacagt ggcttggcca gtcttggcat tctcatcaaa    1320
cttgtcagca gtgacaaagt caacaggcaa ggtaatcttc acaccattct tctcagcttt    1380
ggacattagg tctttgacaa tcttggctcc ctcttcatca aacagagaag tgccaatctc    1440
catgttgttg agcaccttaa ggaaggtaaa agccattcca ccaccaataa tcatctcatt    1500
gactttgtcc agcatattat tgatgagctg gatcttgtct gcaactttag ctccgcccag    1560
gatggccagg aagggtcgct ctgggctctc caaggccttt gcaaagtagt tcagctcctt    1620
cttcatcaaa aacccaccag ccttctgtgg cagattgact cctaccatgg agctgtgggc    1680
```

4387

```
tctgtgagca gtgccaaaag catcattgac atagacatcc cctagcttgg aaagtgaagc      1740
tcggaaagct tctattttgg ctggctcggc tttaaccttg ttcccagaag catcttttcc      1800
cttcccttct tcctccacat gaaagcggag gttctccagc aggatgacag acccagcagc      1860
tgggttggca caggctttct ccacttctgg gcctacacag tccttcaaga acagaacatc      1920
cttgcccagc agagatttga gttctacagc aactggctct aaggagtact tgtcaggcat      1980
gggcacacca tcaggccggc ctaggtggct cataaggact accgacttgg ctccattgtc      2040
caagcagaat ttgatgcttg ggacagcagc cttaatcctc tggttgtttg ttatctggtt      2100
gttcttcata ggaacattga agtcgactct cataacgacc cgcttccctt taacgtccag      2160
cttgtccagc gtcagcttgt tagaaagcga cattttggaa atacagctgg ggagagaggt      2220
cggtgattcg gtcaacgagg gagccgactg ccgacgtgcg ctccggaggc ttgcagaatg      2280
cggaacaccg cgcgggccct cgtgccaagc ttggcgtgtc natgtcagan ggctatcaat      2340
nagggtttca attggggacg tcc                                             2363
```

<210> 5846
<211> 3182
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1123)...(2418)
<223> similar to gi5305335 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5846
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cacgtttctg tatgtcttag gccagtatcc caaacctctt ccacgtcact gttctttcca        60
cccattctcc ctttgcatct tgagcagtta tccaactagg atctgccaag tggatactgg       120
ggtgccactc ccctgagaaa agactgagcc aggaactaca agctcccccc acattcctcc       180
cagcctccct cactctccat gctggcagag caggagggag actgaagtaa gagatggcag       240
agggagatgg tggcaaaaag gtttagatgc aggagaacag taagatggat ggttccgggc       300
cagagtcgat gtggggagga acagagggct gaagggagag ggggctgact gttccattct       360
agctttggca caaagcagca gaaaggggga aaagccaata gaaatttcct tagcttcccc       420
accatatgta ttttctagga tttgagagga aagagaggaa aatggggggaa tgggttgcaa       480
aatagaaatg agcttaatcc aggccgcaga gccaggaag gtgagtaact ttaggagggt        540
gctagacttt agaagccaga taggaagaat cagtctaaac tggccatgct ttggaaggga       600
caagactatg tgctccgctg cccaccttca gcctgcaatg agggactgag gcccacgagt       660
ctttccagct cttcctccat tctggccagt ccctgcatcc tccctggggt ggaggatgga       720
aggaaagctg ggacaagcag ggaacgcatg attcaggat gctgtcactc ggcagccaga        780
ttccgaaact cccattctcc aatgacttcc tcaaccaatg ggtggccttg tgactgttct       840
ttaaggctga agatatccag gaaagggggc ttggacactg gccaaggaga ccccttcgtg       900
ctgtggacac agctctcttc actctttgct catggcatga cacagcggag accgcctcca       960
acaacgaatt tggggctacg aagaggaata gcgaaaaagc aaatctgttt caactgatgg      1020
gaaccctata gctatagaac ttgggggcta tctcctatgc ccctggacag gacagttggc      1080
tggggacagg agaagtgctc aatcttcatg agacaaaggg gcccgatagg gccagcagcc      1140
acaaggcctt gacctgccga gtcagcatgc cccatctctc tgcacagctg tcccctaaac      1200
ccaactcacg tttctgtatg tcttaggcca gtatcccaaa cctcttccac gtcactgttc      1260
tttccaccca ttctcccttt gcatcttgag cagttatcca actaggatct gccaagtgga      1320
tactggggtg ccactcccct gagaaaagac tgagccagga actacaagct cccccacat      1380
tcctcccagc ctggacctaa ttcttgagag gggctctctc ttcacggact gtgtctggac      1440
tttgagcagg cttctgcccc ttgcgttggc tctttgctgc cagccatcag gtgggggatt      1500
```

4388

```
agagcctggt gtaagtgcgc cagactcttc cggtttccaa agttcgtgcc tgcgaaccca   1560
aacctgtgag tctcttctgc atgcaggagt ttctcctggg cagctggtca ctccccagag   1620
aagctgggcc ttcatggaca catggaacta agcctcccaa atgggagttc tggctgagcc   1680
cagggtgggg agatcctggg aagggaggca ctggaggaag acggcacctc ttcccccatg   1740
gcagggtgtg agggaggcag gtttggaatg gtgcgagtat ggcaatctaa gcaggggtct   1800
ggtctctttg actccaggct ggcctttggc cgactgtctg ctcacccaga gaccttggac   1860
tccggactat ccatggctcc gaatctaagt gctgcccact cccatgctca cacccacaga   1920
aggtcttccc atccccttta gattcgtgcc tcactccacc agtgaggaag atgcctctgt   1980
ctttcccacg actgccagga gatagggaag cccagccagg actgaccctc cttcctccag   2040
cctgccctga cccacctggc aaagcagggc acatggggag gaagagactg gaacctttct   2100
ttgacagcca ggcctagaca gacaggcctg gggacactgg ccccatgagg ggaggaaggc   2160
aggcgcacga ggtccaggga ggccctttc tgatcatgcc ccttctctcc cacccatct    2220
ccccaccacc acctctgtgg cctccatggt accccacag ggctggcctc ccctagaggg    2280
tgggcctcaa ccacctgctc ccgccacgca ccggttagtg agacagggct gccacggcaa   2340
ccgccaagcc cccctcaagg tgggacagta ccccggaccc atccactcac tcctgagagg   2400
gctccggccc agaatgggaa cctcagagaa gagctctaag gagaagaaac cccatagcgt   2460
cagagaggat atgtctggct tccaagagaa aggaggctcc gttttgcaaa gtggaggagg   2520
gacgagggac aggggtttca ccagccagca acctgggcct tgtactgtct gtgtttttaa   2580
aaccactaaa gtgcaagaat tacattgcac tgtttctcca cttttattt tctcttaggc    2640
ttttgtttct atttcaaaca tactttcttg gttttctaat ggagtatata gtttagtcat   2700
ttcacagact ctggcctcct ctcctgaaat ccttttggat ggggaaaggg aaggtgggga   2760
gggtccgagg ggaaggggac cccagcttcc ctgtgcccgc tcaccccact ccaccagtcc   2820
ccggtcgcca gccggagtct cctctctacc gccactgtca caccgtagcc cacatggata   2880
gcacagttgt cagacaagat tccttcagat tccgagttgc ctaccggttg ttttcgttgt   2940
tgttgttgtt gtttttcttt ttcttttttt ttttgaaaac agcaatacct acagtacata   3000
ttactgtagt tctctatagt ttaacataca ttcataccat aactctgttc tctcctcttt   3060
tttgtttct actttaaaaa caaaaataaa cgatgataat ctttactggt gaaaaggatg     3120
gaaaaataaa tcaacaaatg caaccagttt gtgagaaaaa aaaaaaaacc ccaaaaaaaa   3180
aa                                                                 3182
```

<210> 5847
<211> 869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (776)...(29)
<223> similar to gi5824504 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5847
```
tggttcaagc tgaggccgag tggggacgac gtggagctga ttggagaaga ggaagatgtg      60
agtgtttacg acattgctga ccaccctgac tttaggttcc gtacaactga catcgtcatc     120
cgcatcggca atactgagga tggggctcct cacaaggagg atgagccatc ggtgggccag     180
gtggcccgtg tggacgtcag cagcaaggtg gaggtggtgt gggctgacaa ctcaaagacc     240
atcatcctgc cccagcactt gtacaacata gagtctgaga ttgaggagtc agactacgat     300
tcggtagaag gcagcaccag cggggcatcc tcggatgaat gggaagatga tagtgacagc     360
tgggagacgg acaatgggct ggtggaggac gagcacccca agatagagga gccccccatc     420
ccaccccctgg agcagccggt ggcccctgag gacaagggag tggtgatcag tgaagaggca    480
```

```
gccacagctg ccgtccaggg ggctgtggcc atggctgccc ccatggccgg gctgatggag      540
aaggctggca aggacgggcc acccaagagc ttccgggagt tgaaagaggc catcaagatc      600
ctggagagcc tcaagaacat gactgtggag cagctgctga cgggctcgcc cacctctccg      660
actgtggagc ctgagaagcc aactcgggag aagaagtttc tggatgacat caagaagcta      720
caggaaaacc tcaagaagac cctggacaat gtggccattg tagaggagga gaagatggaa      780
gcagtgcccg acgtagagcg caaggaggac aagcccgagg ggcagtcacc tgtgaaggct      840
gagtggccca gcgaaacccc ggtgctgtg                                        869
```



```
<210> 5848
<211> 1766
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1708)...(1264)
<223> similar to gi31973 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
<400> 5848
ttcagtccaa tccagtgatc agagctgcat ttatcccgcc taagaaaatt catttctttt       60
atgttgtcaa ttatagttag gtcggcatgt tagttgcatc agttgttttt tttttttta      120
aaaaaaaaac aatcctttaa taaaattagt ccatctaaaa ctccccaatg cctaaggttc      180
tagtcgtgga agggttagct gcagaattcc agttcagaag ccaacggagg ctcagtccag      240
acagggatta accgacttgt gctggtatct aggtgcttgg attgccgagt tgagtttgct      300
ggaagggaaa tggggcggcg tcgggggggcc cgacaggcct ggctgccagt cggcttccgc      360
gaaaacgact cttgctgtcc acatagccag ccgtgaagcc aaactgcagg cctctgccct      420
cccctaaatg tcctcctagg aggcagtcac tcgggaggaa gatgtgcctg ttaccaagtg      480
cttcgtcccg gccccagcgc agacctatga atgaagatgg agggagagct gatgtgaaag      540
gcctgggtcc cggccgcaga aggggcgcca gaccgaaatc ggcgatcgcg tctctcccac      600
caaagcctcc cggccagcgg ccgcgtctga aagtcctggg ctaagcacca cgccggggggg      660
gtaccagaca ccccggctgc agctgccgag ggcctcactc accttgcagg gccgccggcc      720
tgcgtcggcg ctgggactgc gcacgctcgg ccctgcgtca gagcgaggaa gaaaaaggcc      780
aagatcttcc agaaggtgct gcggcctccc cgcacgcccg cttgaggcga ctcgggatgg      840
ggcggcttga gtcacgaacg ccgaggcggg gcagggtgcg gcgccggcgc gcctgccccc      900
cggcaggctc ggggtcttcc gcgccacgga ggtcacccga agagcgccgc aagccgcatc      960
cggaaggccc gaaccctacc ggaggggcgg acggcggaca gggcaaggcc ccgagcccga     1020
cgcggcaggc ggtgcgggac gggagcggtg gcgggcgggg actcgagggc cgggcggcga     1080
aggcgggcga ggggagggga ggggaagggg aagccgcggc cccgcttgcc ccggcagtct     1140
gaagcggctc agctctttcc atgaaggccg gtggggcccc tttaaagggc ctttgtggtg     1200
gcatggggag gcctggcggc cgggcgcggc ccgggccctc ttagtactcc ttgcggaagc     1260
cttggttgcc ctttcttcgc cgccccgaag ggcgcctcgg ccccaacggt ggcgctagtc     1320
tatcttgggc agcagcacgg gccctggatg gttgggcagg gacgcccttc cctgggcaat     1380
tcgtcaaggc agcccaggaa gcttttagag ctccctcgtc gttgcggatt ggccagcttg     1440
caggtggctg ggggatgatt cgcgtcttct tgttggtgcc gcggccgcat tgcccggccg     1500
gctccaggag tctcagctgg tgaggtactc catgcactag ccgccaaggt agcagcatgg     1560
cctgccggcg ccaacgcgct cggcgtagtg gcccttccgc agcagccggt gtacacggcc     1620
cactgggaac tcgacggccg gcgcgcgacg agcgcgactt ggccttggcg cgggccttgc     1680
cgccagtctt gccgcggccc gacatgctag cgaggtagac cggtgaagca cgacggctca     1740
aacactagaa cagacgccca ccgcag                                         1766
```

<210> 5849
<211> 1647
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (377)...(1255)
<223> similar to gi190510 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5849
gcttcactga agttctcctt ggtcctgatt cttggcctcc tcccaccaga acgtgagctc   60
cttgtgggag gcagtgcccc tcccagcctc ctccctgtca cagactgtgt gggggccacc   120
caggggctga atggaccagg gggtcagcag ggagagtgct aagtggtggc ggggggcctg   180
tggcagaggc cttgtgacag tgagggttga gggctggtcc agagagatga tgtgatcccc   240
aggagaagcc acaggggacc atgacatggg cgccaccagc ttccaggtga acgtggacct   300
atcgaaagcc agcttcaggg caggacactg tcctttctgg aggggatggc cccaccccac   360
agacaaggca ggcccagaca actctacccc actgcctaga agtgcgggtc cccagagcca   420
gggtagaccc cctgagtcag gagcccgggc acagaactga gcacctgcac tgcaggccca   480
gggccgggtt ccctggagaa ggagaaagac tgaagccact gcctacctcc tgcccacaac   540
agactgcagg cccatttggt gacacaggac aagcagcaca tgtgtcgaac actgccgagc   600
ccgcaggcac gcctgcatcc cacagccacg agcctgtgag gctcaggcat gtgacctgca   660
ggagctggag gcgggcggga aggcaggtgg gggcctctcc ctggctggag cagggagctc   720
caggagacct caggacggcc cccacccggt gggtaaggac cctgtttccc aatttgcccc   780
caaggcctaa tggacccacc gggcttaggg agtcctcact cagaggagag gagcccaccc   840
ctcccaggac acctggctga gccggaacag cagcgcaggg gagctgtgac agcagagagc   900
agcaccaggt cacacaagca gccgccccgg aaggacacgg cccatggtga cagaggacaa   960
gcagcatgcg tgtgtcagac actggcctgg cctgtggaca cgcccgcgtc ccacagccat   1020
gaccctgcga ggccaggaga gactgctcca gggcacatga cctgtggtag ctggaagtgg   1080
ggcagggagg cgcagccaca ctcctgctct ggtccgaggg agatctcagg aaaccgactg   1140
ggaaatcacc ccccacaggg acccccaccc ctcccagcct cactgcgccc cgtcaggcca   1200
ggcagctgcc ctcagggtct gccaaggtgg gggtcaaggg ccatggggc aggtagctct   1260
gcctgcaaag cccacaagca tgtcagatca cctgggctgc agacagacaa acacctgagc   1320
tgttctgaat accttcaggt tcctggcctc gctgagcaag tgcagaaatt tttaccttca   1380
aggatcaggg tttttctgtt tgtttgtttt ttaacacaca catatgtgaa caaagagtat   1440
gcgtttgtac tggcagaaga agcgtctggt aagacaacca gcaagttaac aatggtcacc   1500
tccagaaatg ggctgggtaa accaaagaat ttttttgttt ttgttttttt tgagtcaggg   1560
tctagctctg tcacccaggc tggaacgcac tggtgtgatc acggctcact gcagccttga   1620
cctccctggc tcaagcaatc ctcccag   1647

<210> 5850
<211> 1544
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1108)...(209)
<223> similar to gi2660716 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5850
tttttttttt ttcccttcca catttcgtat taaatacctg aaatatatta atcttaaaaa   60
acaatatcga tacagtactc aatggataga ggcagtggag tgaacaagaa gcccagattg   120
caaaatcgta ggtcataaaa aaactggagt gcgcgtgcgt caggttccag gcacgcgaga   180
aaaagcaacg cgaaagcttt cagtctcgga ggaggttttc gggcttgggg tagccgaaga   240
gaacaaagtc ggcctcgtag agtttataca gctgctgcct ccaggccagg gggatcttgg   300
cgaaccagtc ctcctcccag ctgctgggcg gtcctgttcc cggtagctcg gggggaagcg   360
gagctgccag gtccacctgg agtagctgca gcagctgcgc ggcgtcctcg tccagagtct   420
ccagcttccc cacgaagtcg tagtcgatct ggcacgggtg gcagaggcgg tacacctgcc   480
gccagtgctc gttgaagggc gccagcttct ccgtgtgcgg gtccagcagg tactggatga   540
agttggcgaa ggacaccttg aggccagcgc ggaaggcctc gcgcgccgag gcgggcaggc   600
tggtgtggtt ggcgtacagc cgcagcatgg gcacggcgaa cttgcggtag aactcctcgt   660
tctccagctc gaacttgctg cggaaggcgg agatcaggcg cacgaagggg tcgcgcacga   720
agaggaactt ggtgtacttc ttgagcttga ccttcatgag gtggcgggag agcttcccgt   780
agcggcgcca gaacttgttg aaggtcaggt gcgcgctggc gttgtgcacg tgctcgcgcg   840
ggatgcgcag cgggtcgcgg tagggcgcac cgcggtgcag caggcttccg ctcagcacga   900
tcatcacgcg cttccagttg gtgcaggcca ccttgggcac gtagcagtag atggccccgt   960
gccggtcgtc cacgatcagg tggctcagct ccgagttggg gatgtcgtcg aatgggcgct   1020
ccttggtggg gaaggccagg ctggagttgg cgcagaagcc ccgcagcacg ctcctccgct   1080
ccgcctgctg ccggccctgg tctgggctgc gccgggcgtc gcgcggggac cagtcgtagc   1140
ctctcacgct ctcctccatg ctccccggcg caggcggctg ctccgtctcc tttctgggaa   1200
ggtcgctctg cttcacgcca gcactgagaa acttgtccag aaactcgtcg acatcggagt   1260
cggccgtgag ctccctgtcc ctgtccggcc cgggcgtggg cagcggcggc cccgtgtgcg   1320
gcctagagaa ggacgtgtgc aagtagaagt gcgcggcgcc tgcgctgtcc cagtacacga   1380
tgatcagcag gatcatgaac accgacccca gcaccagcca cagccggaac agccgggcct   1440
tggtcatcct gccccgggcg ggctgggccc tctccgggcc tctcacttca gcttcctgca   1500
gagccggggc atcctgctgg gaacctcgcg cccctcacct cgcg   1544

<210> 5851
<211> 1598
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1599)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (160)...(1117)
<223> similar to gi1334643 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

                                    .

                                  4392

<400> 5851
```
tgaaagaaac agtgcagttt tgttgctcac agggacccgt ccccacacac tggagagact      60
ttgaaggttg gggttctgcc cattccacct ggggaatatt ctgggcccag cctaaaaagt     120
tctgttgggg ccctaaggcc tggggcaggc tcctgggggc tgtggagccc gaggagccag     180
gcagagcggg gtccttgggg gccaagccca tgcgtcggat gctgtcctgg tacttgcggc     240
ggccgagctc caagactgcg cgcacctctt cagccacgtc ctgccggtca ctctgctcca     300
gggcctgcac caggaagccc cacagcccct ggctgcccag cctggcgctc agcccaggag     360
aagagcatgt gacggatctg ctcatccaga tcatcccgga actcgtgccg gatgcgctgc     420
acctcccggt aggacacccc caggtgcagg gccacggctg gccagtccag acccagacgc     480
ccagccacac tcagcaggtt gctctgcgtc agaaagccgg tctcggcatc tcccagattc     540
aagggtgcca aggagaggcc agccccccgc cgtggcccct cggaccctcg aagtctcggc     600
agcttgatgg gcagagtggc catccacagg gcgtctgcgc ccttcctctg ccgggcagcc     660
tcagcctcct cgggcacccg cacaggcacc gcgccacggt agaaggacac ctccttcaca     720
ttcttcaggt gcgagtagaa gacaaagcag attctgccct ccacacagtc agggcggtca     780
gcatccacgt cgatgccgcg ctcgaaggcc gcaaagaact cttcgccctc gaacatctcc     840
accgtgtcag agggctcggg gccccggtac cgctccagca gccgccgaag ggtggcgtcc     900
cccttgtttc ggggcaggca ctgcagcagg acctgctcag ggtcccggcg ccgctgcaga     960
gcgatgaggt tcacacggtg cagccgcagc cgctcccagg ccttccgagc caggcctccc    1020
acacagttct tggtggtgta ccagagccag taccaggaga agtgtgtgac ctggaagcgt    1080
gcgtacaggt gggtgagctc caggaccacc tgagctgtga tgtcatccca ggtggctgca    1140
ggaggggccc agtacaacag gtgcaggcgg gagcggtcca gactgaggcc tgtgatgcca    1200
gagggcagag gcagctgcac ggtgaccggt tggaggaagc tgggggggacc gctctgtgac    1260
aggcacagca gggggctcac tgcagcctct ggttctccca ggagggcctg cagctctcgg    1320
ccagccatgc gcaccacctg catggagact cgacgaggct cctcagtggc cccaggggggg    1380
aagatgactt tgaccccagg atgacccgag gagcacagca gtgtcccctc cggtggcacc    1440
aggcaggcat tggacacagg gcgggaaacc acaaggaacc aggagaagtg gggcacctgg    1500
cagtgagccc agagccgctg gggtgcctct tcctccaggt aggtctccag gtcaccccag    1560
ctgttgtcga agtccnccgc gagggctatc atctcagt                            1598
```

<210> 5852
<211> 1040
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (820)...(40)
<223> similar to gi200549 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5852
```
ggaattcctg tgctcatggc ctgcatgacg ctgctgccca cctggttggg aggcgctccc      60
ccaggccctc ccggccccga catctcctcg ccctgcggct cctataaccc ccactcccag     120
ggcctggtca cctttgccac ccagctcttc aacttgctct cgggtgaggg ttacctggaa     180
tggtcccctc tcttctatgg cttctacccg ccccgcccac gcctggcggt cacctacctg     240
tgctgggcct ttgccgttgg cctcatctgc ctcctgctca tcctgcatcg ctcggtgtct     300
```

```
gggctgaagc agacactgct ggcggagtcc gaggctctga ccagctacag ccaccgggtg      360
ttctcggcct gggacttcgg tctctgcggg gacgtccacg tgcggctgcg ccagcgcatc      420
atcttgtacg aattaaaggt ggagctggag gagacagtgg tgcggcgcca ggctgcggtg      480
cggacgctgg gccagcaagc cagggtttgg ttggtgcggg tgctgctcaa cctgctggtg      540
gtcgcgctcc tgggggcagc cttctatggc gtctactggg ctacggggtg caccgtggag      600
ctgcaggaga tgcccccttgt ccaggagttg ccactgctga agcttggggt gaattacctt      660
ccgtccatct tcatcgctgg ggtcaatttt gtgctgccgc ccgtgttcaa gctcattgct      720
ccactggagg gctacactcg gagtcgccag atcgttttta tcctgctcag gttccagcct      780
cacggggatg gctgggaatg atgaagggtg ggggcggtca gagggatgtt ggcgctgaca      840
ggtaagacac ggaaatcctg ctgataccga atccagggat tcaaatcctg actctgttgg      900
ccaggtgcag tggctcacac ctgtaatccc agcactttgg gaggccgagg ctgaggtcag      960
gagttcgaga ccagcctgac aaacatgatg aaaccccgtc tgtagtaaaa atacgaatat     1020
tagcccggcc gtagtggctt                                                 1040
```


<210> 5853
<211> 1086
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (862)...(497)
<223> similar to gi1911774 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters

<400> 5853
```
ttttttttt ttcaattaaa gatttgattt attcaagtat gtgaaaacat tctacaatgg      60
aaactcttat tagatgctgc atgtactgtg ctatggacca cgcacataca gccatgctgt     120
ttcagaagac ttgaaatgcc attgatagtt taaaaactct acacccgatg gagaatcgag     180
gaagacaatt taatgtttca tctgaatcca gaggtgcatc aaattaaatg acagctccac     240
ttggcaaata atagctgtta cttgatggta tccaagaaga aatggttggt gatggataaa     300
ttcagaaatg cttccccaaa ggtgggtggt ttttaaaaag tttcaggtca caacccttgc      360
agaaaacact gatgcccaac acactgattc gcggtccagg aaacacgggt cttccaagtt      420
ccaaggggct ggggttcccc aacgatcaag ttcctgtgct gtaatcaaga gggtcctttg      480
gactggatag ggagcacttg ggagctgtac accatcagtc ataatggatg gcagtgtaaa      540
agatgatcca aatgaccatg aacaaggcaa aagaggtcat aaacccttcc ttcgtgagct      600
cccacgtgcc accatattct tcctcatcaa tctgtaggta attgctgaag tagaggtaca      660
ggactcctgc attgatcagg cagaatcctg ctattcccaa gaaccctcgt aatggcaaaa      720
ctccccaaat gacacccagg accacagcaa tgatctgtcg gaaccagtag atcacatcta      780
aaaattcatc cttatcctcc caggccgcgt cgctccgcag caccttactc cagacggaga      840
ctttgagggc cccgttggcc agctgcggct gaggcggctc ctccttccgc cgcccgccgc      900
tcatcctccc gtcgcgccgc ccgggccggg cctggggcgc gcgggctgag ccaaagggta      960
gtcggggtct agggtcgcag gtcacggcgc ggggcggctg caggctcagc ggcccggtcc     1020
tgcgggcgct gcggttcctc acaacctggc caagctaccc ggttgccgcc ggctctacag     1080
agcagg                                                               1086
```

<210> 5854
<211> 701
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (667)...(663)
<223> similar to gi1345536 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5854
ggaattcaag acgccaagat ggcgacgagt cagtatttcg acttcgcgca gggcggcggc   60
ccgcagtaca gcaccctcct ggaggacggg actttggtct ggttattccc cgctgctgtg   120
acagcgccca tgacagcagc tggtccccac tggcacccag gaagtattta tccaatgact   180
caatgaatct gccgccggat cgcccgggac tgctttcact ttctgtcagt ccagaagtgg   240
agaccactcc cccggccctt gcatctgggc ttccttgtgc cctgccttgg acagttggct   300
gcagtggaag tgacgctgtg actgccctgt gcccaagctt aagaggcctt gcctgcatct   360
gctccatctt atgggaccct gcctggtgaa ggacccaagg ctggcctgct ggaggaggag   420
atataaggag aagagtcaca gtgccccatc caacaggtag ctgccctcca ggggcagaga   480
agcccagcca tggtcaggag agccacccag ctgaggccca cctccaccag gattgccacc   540
cagctgaacc ccacctcagc caggagagcc acccagctga gccccatctg gccaggagag   600
ccatccagct gagccccacc tctgccagga ttgccaccca gctgagcccc gccttggcca   660
ggagagccac ccagctgagc cccgccttgg ccagaaaaag g   701

<210> 5855
<211> 427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (210)...(5)
<223> similar to gi3319905 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5855
ggatattggc ccctcactgc agctgccaac acttggtcag tcactctcag ccatagcact   60
ttgttcactg acctgtgtca cagcactgag ctccaccctt ttctgagagt tattacagcc   120
aaaaagtgtg ggctgaagat ggttggtttc atgtttctgt attatgtatc tttttgtatg   180
gtaaacacta tattctgtac ttaaccagat ctattttac cccagatggg gatattcttt   240
gtaaaaaatg aacataaagc ttttttaatg gaagagcact acacaggggg cgccgatcta   300
gaggactcct tgctggaccc agttttacac gaggctgaga gctgttactg cctgccttat   360
atggagctga attattccct ggctggggat actgggtaag gaacctttat tctgcgtagt   420
aacaaaa   427

```
<210> 5856
<211> 829
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (619)...(191)
<223> similar to gi1619936 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 5856
actagagaga aaaacgtatc ataaatcctt atgttgccca ctttaacaat tgccaacata      60
tgaccataac aattaacaac atatgactaa tcttatttca cctttaccta cctccctcat     120
tagtttgaat cagattgcag ttattttatt tgtaaatatt tcagtattct gatattcagt     180
tgatcttttt tgtttatcct tctgccaggg ccatactatc ttgattactg gagggttata     240
ttaagtatag aaggcaggta ggttaaattc cccaattttt ttctcagcta ttcttggact     300
tttgcctaag tcaaatttaa aattcttctg tcagtttcta gaaagaagcc ttctgggctt     360
ttgatttctt tttcatttct tgtgaaacaa atatcagatg ggcttttgat tttgattgca     420
ttgaatctaa aggtcaattc tgggagaatt gacatccttg acaatagtct tttgatccat     480
gaatgtggtg tatctctccc tttatttagg tctttaggtt ctctcaatat tttctagttt     540
tcagtataca aatcctgcac atctcttggt acatagattt ctaaatattt catgcttttt     600
gctgctattg tgaagttctt aaaaagtaaa tttttaattg tttgttgata gtatgtatgc     660
tttaagtagt gaattatctt tttagaaaat taaaacatga gagaaaaggc cttggttttt     720
tatattatgt taaaaatatt agttttgttt acacattctt ctggtgtgct ttattgtctg     780
tagaaatgtt accctgcagc ctgggcaaaa tagtgagaaa ctatctctc                 829




<210> 5857
<211> 1344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (777)...(103)
<223> similar to gi2648022 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 5857
tttttttttg ccaggtgttt ttacatttta ttagctacag tatagatcct agagctgcct      60
cattccctcc cctccctcc cctcccccca ccatggaggt caggccttgc caggagcccc     120
tgcctttgct gcctgggccc gctggaactc ctgctgcagc tgagcaaggg tctccctctg     180
ttgctctgac tgccgctcaa gatcccgaag ctgggattcg tatcgcttac taaggagaga     240
caagggagac aagcagaaag ggagaaatta gtaggactca ctatggagag tgctaaacgc     300
```

```
aagaaagaga taggtggaaa acttgagatc caggggaggg agaagaaggg gggttaaaag      360
ggaaggaaag ggttggagga actggaggac taggggccac tatggagagc tgttctgcaa      420
tggttcaaca cctctactcc aatggttcac ttgcatcaca gggtgcagca cacggtggtg      480
gaataaaaac tcacatttca gctgtgatat agtccagcct cttccctact gtggcccgag      540
cctcccccag ctcctgtttg actagcaccg gacccagaag tttaaagacc acgttggacc      600
catccagcag ggccagttcc tgatggaggg atgggacata tgtgatcaga accatggcta      660
gtacaggtcc ctcctcgccc cacaaatccc agtccctcac ctctttcacg atattatttt      720
ctgttagttg tgcttcaagt ttctgcctcc ccgacatgga tttacttaag tctggggatg      780
agaggaaagg caatttagaa acatcaaatg tgccacctat ccccacaatc ctagtcaggt      840
ggatatggat ctgaggaagc agaaaagggt gggggcagcg ggtgagtgaa cagggaagag      900
tactgagact gaggcgggga agtctctgca cgcgagggcc cagatggggc aacaaacctt      960
atctcggtaa tggctttggg ttgtaagtgc attgggcgag accataccga ccctgttccc     1020
ttacccttct gtagctgttg atatttctcc acttctccct gtagcttctt ctggatcagc     1080
tccgccatgg cggggatgaa agcctactgg gtgcgagaca agggcgctgg gtctcactct     1140
ctggaaggta cctgagctcc cttttctgat ctggcctgcg gaaatgatag cactcttgag     1200
aggtagccct gaggggcacc gcaacctccc ccccgtcccg gatatcgact ccaccctgtc     1260
cccaggagat ggtgggcgaa acgcaagacc ccaagcctct caaccgaaat cctaacctac     1320
tcacgttctt ccttcagtag taat                                            1344


        <210> 5858
        <211> 1522
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (162)...(760)
        <223> similar to gi5824504 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters.



        <400> 5858
aaccccgccc cattatattt atcacccccc cccttcagcg gaatggggcc cccggcccccc     60
ccccacacac agttattctc taatttgtat ataaatttca cttttaagca tttttttttt    120
ttttaagaaa taataataca ttttaatgca agagaaatca tagccctggt acacaccccct    180
tccccgatct gtcctgcctg gggatgtgtt tatggtgagt gtgtccccag gactggtagt    240
cacctggctg tccgggtccc cgccctactg gcggcagcat gcctgtcccc agcattacat    300
tcaactgctg ctctggctct cgagaggccg gctggcctcg ggcctccggc ttggcgttct    360
ttgctcccct gtctccctgc taaggccagc agggccaaac tgctaggcca ggtcagccag    420
ggctggggga atgggctgta ccctgctcct ccccaggcac gactgtcccc ccggggctcc    480
atcaccgggt ggggcggagc gtctgctggg gcagctctgt gggccacagg atccccccgc    540
acccactgca tctctctgcc cagggtgcct gcctcatagg atgccccgcg ccacagagtc    600
tctctgccca gggcgcccgc ctcacagctg gtcctcgtcc acccagatgg tcttgcgctg    660
ctcctcgccg atcttgtcct tgacaacgcg gagcagctcc tctacgctgc cccacatgtc    720
aggttccacc gtggcgtaca ggcacggcag ggcctccagc tccttctcct tcagccggca    780
cacgcgcagg aactcctcct ccgtctcagg tcggggcagc agctttctga acctcttgat    840
gttcttctca cacacccgga tgaagagcac gatggggtag atgttggact tgatcaagtc    900
tcttgtgcag ccgatcccag cctccagcag gcagtgcttg ttcttggcgg ccacagcttc    960
aatgttggca ggggcgatgc attcgaacgc gttggggttc ttctctcggg agtagatgat   1020
ggtctccgtc ttctgccttc tgaggaactc atctcttgtg acgatatctg acttgcagat   1080
ggtgaactcc atggcacctc ccgagttgag cagcctctgc accagcgtct tggccagcac   1140
```

```
ggtgggtgtg aagagcacgg gccggcggcg ctcgcagtag aaggcgcgta ccaggctgta   1200
ggggatgagg ctgaggttct tgcccagctc gctctcaggg tccagctctt cctgcttctc   1260
agtcaagagc ttggtggcgt ccagcgagga ccgggccagg ctccctagcg gactccccga   1320
gatgatgcgg acccgctcgt tgctgttcat ccgcttatac ttgttctcgg acctgctgac   1380
gaactgaagg agctggccaa aaaggaagct tgctcgcgag agacgggggc tgacccgggg   1440
gtcgcttgtt gaaagcgctt cttctggctg cagggtgttc cggagtgccc gcagggtgtg   1500
gtgggtgccg tctcctgcct cc                                            1522
```

<210> 5859
<211> 6155
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (97)...(6017)
<223> similar to gi4808813 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5859
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ccccgggtcg acccacgcgt ccaaaagctc cagaactgtc tcactcccag gctacatctt     60
ctcacttgct aacaaggacc tctgagttca gcagccatga gttcagactc agaattggct    120
gttttggggg aggctgctcc tttcctccga aagtctgaaa gggagcgcat tgaggcccag    180
aataggccct ttgatgccaa aacatctgtc tttgtggcgg agcccaaaga atcctttgtc    240
aaagggacca tccagagcag agaaggagga aaagtgacgg tgaagactga gggaggagcg    300
actctgacag tgaaggatga tcaggtcttc cccatgaacc ctcccaaata tgacaagatc    360
gaggatatgg ccatgatgac tcatctgcat gagcctgctg tgctgtacaa cctcaaagaa    420
cgttatgcag cctggatgat ctacacctat tcaggtctct tctgtgtcac tgtcaacccc    480
tacaagtggc tgcctgtgta taagcccgag gtggtgacag cctaccgagg caaaaagcgc    540
caggaggccc cgccccacat cttctccatc tctgacaacg cctatcagtt catgctgact    600
gaccgagaga atcagtcaat cctgatcact ggagaatctg gtgcagggaa gactgtgaac    660
accaagcgtg tcatccagta ctttgcaaca attgcagtta ctggtgagaa gaagaaggaa    720
gaaattactt ctggcaaaat acaggggact ctggaagatc aaatcatcag tgccaacccc    780
ctactggagg cctttggcaa cgccaagacc gtgaggaatg acaactcctc tcgctttggt    840
aaattcatca gaatccactt tggcactact ggaaaactgg catctgctga tattgaaaca    900
tatctgctag agaagtctag agttgttttc cagcttaagg ctgagagaag ttatcatatt    960
ttttaccaga ttacatcgaa taagaaacca gaacttattg aaatgcttct gattaccacg   1020
aacccatatg attacccatt tgtcagtcaa ggggagatca gtgtggccag catcgatgat   1080
caggaagaac tgatggccac agatagtgct attgatattt tgggctttac taatgaagaa   1140
aaggtctcca tttacaagct cacgggggct gtgatgcatt atgggaacct aaaatttaag   1200
caaaagcagc gtgaggagca agcagagcca gatggcacag aagttgctga caaggcggcc   1260
tacctccaga gtctgaactc tgcagatctg ctcaaagctc tctgctaccc cagggtcaag   1320
gtcggcaatg agtatgtcac caaaggccag actgtagaac aggtgtccaa cgcagtaggt   1380
gctctggcca aagccgtcta cgagaagatg ttcctgtgga tggttgcccg catcaaccag   1440
cagctggaca ccaagcagcc caggcagtac ttcatcgggg tcttggacat tgctgggttt   1500
gagattttg atttcaacag cctggagcag ctgtgcatca acttcaccaa tgagaaactg   1560
caacagtttt tcaaccacca catgttcgtg ctggagcagg aggagtacaa gaaggaaggc   1620
atcgagtgga cgttcatcga cttcgggatg gacctggctg cctgcatcga gctcatcgag   1680
aagcctatgg gcatcttctc catcctggaa gaggagtgca tgttccctaa ggcaacagac   1740
acctccttca gaacaagct gtatgaccag cacctgggca gtctgccaa cttccagaag   1800
```
```

                                  4398
```

```
cccaaggtgg tcaaaggcaa ggccgaggcc cacttcgctc tgattcacta tgctggtgtt   1860
gtggactaca acattactgg ctggctggag aagaacaagg accccctgaa tgagaccgtg   1920
gttggactgt accagaagtc tgcaatgaaa actctagctc agctcttctc tggggctcaa   1980
actgctgaag gagagggagc tggtggaggg gccaagaaag gtggtaagaa gaagggctct   2040
tctttccaga cagtgtctgc ccttttcaga gagaatttga acaagctgat gaccaacctc   2100
aggagtaccc atcctcactt tgtgaggtgt atcatcccca atgagacaaa aactcctggt   2160
gccatggagc atgagcttgt cctccaccag ctgaggtgta acggtgtgct ggaaggcatc   2220
cgcatctgta ggaaaggatt tccaagcaga atcctttatg cagacttcaa acagagatac   2280
aaggtattaa atgcaagtgc aatccctgaa gggcaattca ttgatagcaa gaaggcctct   2340
gagaagctcc ttgcatccat cgacattgac cacacccagt ataaatttgg gcacaccaag   2400
gtctttttca aagctggtct tctggggctc ctagaggaga tgcgagatga caagctggcc   2460
cagctgatta cccgaaccca ggccaggtgc agagggttct tggcaagagt ggagtaccag   2520
aggatggtgg agagaaggga ggccatcttc tgtatccagt acaatatcag atccttcatg   2580
aatgtcaagc actggccctg gatgaaactc ttcttcaaga tcaagcctct gttgaagagt   2640
gcagaaactg agaaggagat ggccaccatg aaggaagaat ttcagaaaat taaagacgaa   2700
cttgccaagt cagaggcaaa aaggaaggaa ctggaagaaa agatggtgac gctgttgaaa   2760
gaaaaaaatg acttgcagct ccaagttcag gctgaagccg aaggcttggc tgatgcagag   2820
gaaaggtgtg accagctaat caaaaccaaa atccagctag aagccaaaat caaagaggtg   2880
actgagagag ctgaggatga ggaagagatc aatgctgagc tgacagccaa gaagaggaaa   2940
ctggaggatg aatgttcaga actcaagaaa gacattgatg accttgagct gacactggcc   3000
aaggttgaga aggagaaaca tgccacagaa aacaaggtga aaaacctcac agaagagatg   3060
gcaggtctgg atgaaaccat tgctaagctg accaaggaga agaaggctct ccaggaggcc   3120
caccagcaga ccctggatga cctgcaggca gaggaggaca aagtcaacac cctgaccaaa   3180
gctaaaatca aacttgaaca acaagtggat gatcttgaag ggtccttgga gcaagaaaag   3240
aaacttcgca tggacctaga aagggctaag aggaaacttg agggtgactt gaagttggcc   3300
caagaatcca taatggacat tgaaaatgag aaacagcaac ttgatgaaaa gctcaaaaag   3360
aaagagtttg aaatcagcaa tctgcaaagc aagattgaag atgaacaggc acttggcatt   3420
caattgcaga agaaaattaa agaattgcaa gcccgcattg aggagctgga ggaggaaatc   3480
gaggcagagc gggcctcccg ggcaaaacgc agagaagcag cgctctgacc tctcccggga   3540
gctggaggag atcagcgaga ggctggaaga agccggtggg gccacttcag cccagattga   3600
gatgaacaag aagcgggagg ctgagttcca gaaaatgcgc agggacctgg aggagggcca   3660
cccctacagg cattgaagcc acagcggcca ccctgaggaa gaagcatgca gatagtgtgg   3720
ccgagcttgg ggagcagatt gacaacctgc agcgagtgaa gcagaagctg agaaggaga   3780
agagtgagat gaagatggag attgatgacc ttgctagtaa tgtagaaacg gtctccaaag   3840
ccaagggaaa cctagagaaa atgtgccgga ctctagagga ccaactgagt gaactgaaat   3900
caaaggaaga ggagcagcag cggctgatca atgacctgac tgcgcagagg gggcgcctgc   3960
agactgaatc tggtgagttt tcacgccagc ttgatgaaaa ggaagctctg gtgtctcagt   4020
tatcaagagg caaacaagcc tttactcaac agattgaaga attaaagagg caacttgaag   4080
aggagataaa agccaagaac gccctggcgc atgccctgca gtcttcccgc cacgactgtg   4140
acctgctgcg ggaacagtat gaggaggagc aggaatccaa ggccgagctg cagagagcac   4200
tgtccaaggc caacaccgag gttgcccaat ggaggaccaa atacgagacg gacgccatcc   4260
agcgcacaga ggagctggag gaggccaaga gaagctggc ccagcggctg caggcagctg   4320
aggaacatgt agaagctgtg aacgccaaat gtgcttccct cgaaaagacg aagcagcggc   4380
tgcagaatga ggtcgaggac ctcatgcttg atgtggagag gacaaatgcc gcctgtgccg   4440
cccttgacaa aaagcaaagg aacttcgata agatcctggc agaatggaaa cagaaatgtg   4500
aggaaacgca tgctgagctt gaggcctccc agaaggaggc ccgttccctt ggcactgagc   4560
tgttcaagat aaagaatgcc tatgaggaat ctttggatca gctagaaacc ctgaagcgag   4620
agaacaaaaa cttacagcag gagatttctg acctcacgga acagattgca gaaggaggga   4680
aaccgtatcc atgaactgga taaaataaag aaacaagtgg aacaagaaaa gtgtgaactt   4740
caggctgctt ttagaagaag cagaggcatc tcttgaacat gaagagggaa agatcctgcg   4800
catccagctt gagttgaacc aagttcaagt ctgaggttga taggaaaatt gcctgaaaaa   4860
gatgaggaaa ttgaccagat gaagagaaac cacagttaga atcgtgggag tccatgccag   4920
agcaccgcct ggaatgcctg agatcaggag taggaatgat gccattaagc tccaagaaag   4980
aagattggaa gggagacctc aatgaaatgg aaattccagc ttgaaccatg cccaaccgca   5040
tggcttgctt gaggcccctg aaggaactac aaggaacacc ccaaggcatc cctcaaggat   5100
acccagatt ccaccctgga ttgattgctc tccgggagcc aagggaggac cttgaaagga   5160
acagctggcc atggtggagc gcagagccaa cctgctgcag gcttgagatc gaggagcttg   5220
```

                                    4399

```
cggggccact ctggaacaga caagagagga gcagaaaaat tcgcagaaca aggaagctcc    5280
tgggatgcca gtgagcgtgt ttcagctact tgcacaccca gaacaccagc cctgatcaac    5340
accaagaaga agcttggaag acagatattt cccaaatgca aggagagatt ggaaggacat    5400
tctccaagga agcccgcaat tgcagaagaa aaaggccaag aaggcactca ctgattgccg    5460
ccatgatggc tgaggagctt gaagaaggag caggacacca gcgcccaacc atggagcgga    5520
ttgaagaaga acattggagc agaccgttga aggatcttgc agcttccgtc ttggattgag    5580
gcttgagcca gcctggccct tgaagggtgg gaaagaagca gatcccagaa acttggaggc    5640
ccagggtacg ggaagcttgg aaggaagaag gtttgagaat tgagccaaaa gcgttaatgc    5700
ttaaggcttg tccaaaggtc ttgcgccaac attgagaggc cgagttgaag gaactcactt    5760
taccagaccg gaaggaagat agaaagaata ttctcaggct tcaagatttg gtagataaac    5820
ttcaggcaaa agtgaaatct tataagagac aagctgagga ggctgaggaa caatccaaca    5880
ccaatctagc taaattccgc aagctccagc atgagctgga ggaggccgag gaacgggctg    5940
acattgctga gtcccaggtg aacaaactgc gggtgaagag ccgggaggtt cacacaaaag    6000
tcataagtga agagtgatca tgtcctgatg ccatggaatg actgaagaca ggcacaaaat    6060
gtgacatctt tggtcatttc cctctgtaat tattgtgtat ctaccctgt tgcaaaggaa      6120
ataaagcata gggtagtttg caaacaaaaa aaaaa                                6155
```

```
<400> 5860
tagtagaggc ggggtttcac catgttggcc aggctgagtc ttgcgcacgg gacctcaaga      60
gatatgcctg cctcagcctc ccaaagtgct gggattacag gcgtgagtac tccgtgccca     120
gtcaattttt gtatttttag tagagacggg gtttcaccat gttggtcagg ctggtctcaa     180
acttctgacc tcatgatctg cccacctcgg cctcccaaag tgctgggatt gcaggcgtaa     240
cacnccgcgc ccaagctaat ttttaaaaat attttataga gacaggtctc actatgttgc     300
ccaggctcgt cttgaacccc tgggcccagg cgctcctccc accttgacct cccaaagttc     360
tggaattaca catgtgagcc aacacaccag gcccagactg ggtaatttat aaagaaattt     420
acttctgccc acaccggccc gcctccccgc ggcgagtggc tgaggcgtag cgctgccatc     480
cccgcacccc tgggaacatg gcgctgcgag tggtgcggag cgtgcgggcc gtgctctgca     540
gcctgcacgt ggtcctggca cctgccgcgc cctgcctatc gaggccctgg cagcttggga     600
tgggcgccgt ctggttactg taatctgcct gaagttggga caaaattgaa caaacaagat     660
gagtttggtg ctttggagag tgtgaaagct gctagtgaac tctattctcc tttatcagga     720
gaagtaaccg aaattaatga agctcttgca gaaaatccag gacttgtaaa caaatctcgt     780
tatgaagatg gttggctgat caagatgaca ctgagtaacc cttcataact agatgaactt     840
atgagtgaag aagcatatga gaaatacata aaatctattg aggagtgaaa atggaaccac     900
taaataagct agtatgaaat aacgcaaccc agcagagttg tcctaaatta gtggtggata     960
```

```
gaagacttag aatagcaact tttagcatta cccatgggaa aaaaaaacta ctgttaacac   1020
tgctaatgaa agaagatgcc ttttaacttt ctaatgattg tagataaaca taatatgtgt   1080
cttttttcaca acatcctatg attttttagac taggctctag tattcatgaa attatccatg   1140
aaattatcca tggtaaaaat tagttacaaa aattacataa ttcaaagata atgttgttat   1200
tcttaagcct tatataatat tgtaacttgt gtatgtccat acctggattt gggatgaaat   1260
acttaatgat ctttccattg gaaataactg ggagtgaaga agttttttgtt gcttgtacag   1320
tgtcagatga agaacaacac tatcttaatt ttgcaataca ctgcatttgc tggtgctgtt   1380
tttatatagt gaagcaacag ctgtacagca aaataataaa atactcactt cttcgttaaa   1440
aaaaaaa                                                             1447
```


```
<210> 5861
<211> 1498
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (245)...(1285)
<223> similar to gi1088448 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```


```
<400> 5861
tttcgtcaca taggcacaca gagatacgcg cacacacaca cacaaacgca ctcagatttc     60
ccggaccctg gttttcctcc tgtgacccctt tcggggccgg gctctcaccc taaagaagca    120
gccccgccct ggggtggccc caccctctct tgggacctgt cataagtcgg accccgggcg    180
cccggctgcg cagtcccagc cgccttcccc aggcagtgga accttcgggc tcctgagctt    240
caggatggtt cgtactaaga catggaccct gaagaagcac tttgttggct atcctactaa    300
tagtgacttt gagttgaaga catctgagct cccacccta aaaaatggag aggtcctgct    360
tgaagctttg ttcctcaccg tggatcccta catgagagtg gcagccaaaa gattgaagga    420
aggtgataca atgatggggc agcaagtggc caaagttgtg gaaagtaaaa atgtagccct    480
accaaaagga actattgtac tggcttctcc aggctggaca acgcactcca tttctgatgg    540
gaaagatctg gaaaagctgc tgacagagtg gccagacaca ataccactgt ctttggctct    600
ggggacagtt ggcatgccag gcctgactgc ctactttggc ctacttgaaa tctgtggtgt    660
gaagggtgga gaaacagtga tggttaatgc agcagctgga gctgtgggct cagtcgtggg    720
gcagattgca aagctcaagg gctgcaaagt tgttggagca gtagggtctg atgaaaaggt    780
tgcctacctt caaaagcttg gatttgatgt cgtctttaac tacaagacgg tagagtcttt    840
ggaagaaacc ttgaagaaag cgtctcctga tggttatgat tgttatttttg ataatgtagg    900
tggagagttt tcaaacactg ttatcggcca gatgaagaaa tttggaagga ttgccatatg    960
tggagccatc tctacatata acagaaccgg cccacttccc ccaggcccac ccccagagat   1020
tggtatctat caggagcttc gcatggaagc ttttgtcgtc taccgctggc aaggagatgc   1080
ccgccaaaaa gctctgaagg acttgctgaa atgggtctta gagcttccct actttgtaat   1140
tgactgactt caagcaaata ctcttgtcta taaatccatg aagagtgcta agccatcact   1200
ggaatacatt agcgaaaaac ttgtatcagg gtaaaatcca gtacaaggaa tatatcattg   1260
aaggatttga aaacatgcca gctgcattta tgggaatgct gaaaggagat aatttgggga   1320
agacaatagt gaaagcatga aaaagaggac acatggaatc tggaggccat ttagatgatt   1380
agttaatttg tttttcacca tttagcaaaa atgtatacta ccttaaatgt cttaagaaat   1440
agtactcata atgagtttga gctacttaat aaaatacatt taagtggtaa aaaaaaaa     1498
```

<210> 5862
<211> 1188
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1136)...(372)
<223> similar to gi1813880 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5862
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ttgagcccca agaggcagag gttgccgtga gccaagatca cgccactgca ctccagccag      60
ggtggcagag cgaaaccttg tctcaaaaca acaacaaaaa agaagtaaac agctggtaaa     120
gcaacctagc ctaaaactta caaagtagca gagtgaacac atatgtgcat gcacacacac     180
acacacacaa cacacataca cacagatgag agtagcacac acgccaaaga tacatcaagc     240
aagtgctttt ttaatcaata catcaaatga tattttttgct agcctgagga agcttctctt     300
tgcctgtcct atcattccca cccattgcct cacagggatg gaaagaaatt ccttcttgga     360
cccaacatta gataaacata accaagtctt tacatgtggc tttggagaag gctgctagga     420
tgcttgcgaa cacgacatcg ggggtctggg atgcatcgat ggcggagtgg atcccccgtt     480
tcctgtagta cttctatgag tggggtgggt ttgagtgtgg gtagggcttg caggcgggat     540
tttcaagggc cttttttcatt tatcatcttg atcgacggga tcaaggggtt ccccggttga     600
ttgtcatctt ttcatggggg ctcttttggg aggggttgaa ctcctcgtgg gtaggaacg      660
gccactcttt gggggtgaaa tcagccattt ctgcgtgcct cacagtccga gggaagccat     720
ccagaagaaa accatttttg cacaaggggg tctccaaatt cttctcaatg agctccacta     780
ccatttcatc actcaccagt ttcccagcat ccatagttgc cttcagctttt tttcctagct     840
ctgagccaga agccaccatg gccctcagca tgtccccagt agctaaatgg cagacacaga     900
agtttttcagc caatctgggt gcctggggca gtagatagca gcagaaagag caggagcttt     960
ggagtcattc agatgcaagc tctgtaaatt acttgctatg tagcctagag aacaagccat    1020
tcaaacttca gtttctccaa ctgggtccct ttaccggccc cgggaggccc cagcagcacg    1080
gcccggatgc ctttaggata ctcgggttct gccgctggca cgctgggagc catgtccgcc    1140
gaagtctctc actgaacacc agttcgcacg cctcacaggt ccacgaaa              1188
```


<210> 5863
<211> 2134
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (287)...(703)
<223> similar to gi1890141 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5863

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ggaattcggg tgaggctctc tcattccaga tatggagact aaaaagttca agatggaagt      60
aatagcaaaa aaattacagt actaatcaca acagctacca tttctcagca ttagacacag     120
taactgtatg aaagaagtat gattattagg tctgttttac agatgaggaa actgagaccc     180
agaaaggtgg aagcacttgt ctaaggtcac gcctccagga agcagtgtgt ccacgactcc     240
agtccaagtg gtcaggctcc agagcccaca gtcccagggg tccatgatgc cgagctgcaa     300
tcgttcctgc agctgcagcc gcggccccag cgtggaggat ggcaagtggt atggggtccg     360
ctcctacctg cacctcttct atgaggactg tgcaggcact gctctcagcg acgaccctga     420
gggacctccg gtcctgtgcc cccgccggcc ctggccctca ctgtgttgga agatcagcct     480
gtcctcgggg accctgcttc tgattgctgg gtgtggcggc tctgaccact ggctatgcag     540
tgccccccaa gctggagggc atcggtgagg gtgagttcct ggtgttggat cagcgggcag     600
ccgactacaa ccaggccctg ggcacctgtc gcctggcagg cacagcgctc tgtgtggcag     660
ctggagttct gctcgccatc tgcctcttct gggccatgat aggctggctg agccaggaca     720
ccaaggcaga gcccttggac cccgaagccg acagccacgt ggaggtcttc ggggatgagc     780
cagagcagca gttgtcaccc attttccgca atgccagtgg ccagtcatgg ttctcgccac     840
ccgccagccc ctttgggcaa tcttctgtgc agactatcca gcccaagagg gactcctgag     900
ctgcccacat ggcctaagat gtgggtcctg gatccttccc ccttctcacc ataaccccct     960
ctcagtgttt ccccaacttc tcccttttag cagggtccct ttagagccca actccaggtc    1020
aaatctggag ctcaaatccc agtgctccct ccccaggagt ggggccccaa ctcttccaag    1080
ataccagcat tcctcaagtc ctcccaaaac ttcctaccca caccctcttc ccaaggccct    1140
caggggcaga aaacatctcc ttcaacccgt ccccactcct tcctctgcat gaccttgggc    1200
aaacccttgc cctttcaagc catcagctcc tgcctctctg ccatgagggc tttggatcag    1260
attcctcttc tcgccaggat gaggacacgc actgccctcc atagacacag atgaaggggt    1320
gggggtcatt cagctcgaat gggtcccaga tgctcacttg gcctttccct gcaggatgag    1380
tgaagacgtt tgcctctcac agtgtgtctt ctacctgcat tttggcatca gagcccccca    1440
gcccacccac cacaggcaat tactagccct agttgatagg tgaggtgggt gaagaaggct    1500
ggaggtgaca tgtccgaggt cacacaacaa agcagcatgc aggaactaga aacacatctt    1560
cagcctcctc ctgggccagc tcttgtgcta caggtggggc ggagccagcc cctcaccttc    1620
ctggttccct gagggtcctc agggtggagg acaggtttgg cccagaaaga ctagccagag    1680
gcctgatggt cccaggtggc tctggatata ctttggatat ggatttaaat ggtctctaag    1740
agccggggt aggggggcagg aaaagtgggt tgtctttgcc cctcaaagtc cacctaccta    1800
gaaaccaagc ccacggtctt ggccgtgacc ctgataataa atgggctctc tcagaggcgc    1860
cagcccctcc ctccccagcc ggaggcgtca tctctcttct gtaccactag agggagctct    1920
gatgcagctg gagagcagcg ctcaaggctc tcgcccctcc cctccctaac ccttaccttc    1980
agtctccacc agcctgaagg gcctcctagg ggatcctcag gcggccccca ccagggcaca    2040
ccctactgtc cttgtgcctc acgccccctc ctcatcctgc accccttcca tcccaccttc    2100
cctttcaata aacagctggg atggaaaaaa aaaa                                2134
```

        <210> 5864
        <211> 1936
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1818)...(107)
        <223> similar to gi4884092 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 5864
        tttttttttt ttgctagttg tatataaaat ttaatctcac cgaatgtaca gttttcaaat   60

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ttcacgtgta tattaaggaa ctgatgcatc tgagcattgt caaacaaacg ggaagaagaa      120
gttaaagggc agcctggcat tgatggctgg tggagctctg aagcctgcct ctgcaggtgc      180
agacacatcc acaaaagtaa ccgcagtgga aataagaatc gtcctttcat ttcctgagtt      240
ggcctcagga aaggaggatg aaattagatt tgcagttaca ttgactattt tggcctgtgg      300
attcagcagg gatccgtatt tagtccactt cacttctata accaaagccc ctgggagctg      360
gcaggaatcc ttcctgttga atgactgggt gatgaagtgg atgggcaccc agtccagcat      420
gtccctgggc cctgggaatt tccaaaaggg gccacgtaat ctgggaagcc ctggccccac      480
agcaggctct tcaccttctg tgctacgagc tgacacggga gagctccagt cagtcttagt      540
ttacagccag attgcatagt gtaaccaaat aatactgggg tccggacccc ctccagtgct      600
aagcagtctt gctcagttgt gctatgaaga atagtaagct gtccatatct atttgtggtc      660
tgaataatcc cagacccctt atgaggctgg aatccagcag ctaatgggag ccccacgaca      720
taaccagggt ttccactgag agggactggc tgggtatttt cctgaagaaa atgaatttca      780
aacttttgct gcagtgggac cactacgctg ctaactgtcc ccagaacgaa tgagagatca      840
gctttggtga cttcacctgc atctgtgtat gtgaggctgt actttacctc aagaacaaca      900
ttcacgcaaa ggctaaagtg tccagcgttg acgagagtcg gctgcagcac atcagtgtcc      960
tcccgtcggg tgagcgtttt atttagagac tgaatgacga tggactgaac agtgataggg     1020
acctttttc ttgaatcagg taccctcaga atttccgggc tgctgtaaaa agccatgctg      1080
agggcttcaa tttcttcaca ctgttctaaa tttatttttc tggtgcactt aacagcctgg      1140
ttcaccagaa acgctgcagg gttattatca gtgcacagag atgatgtcag ggacgaagga      1200
aatctcagaa acgaatctga agtctgcaga ggaaccccat actcatattt agcagcagta      1260
ggaatatcca gtttggttgt gaaggaaaca tatgattcag cattcaatgt aaaaccatca      1320
gatgttttca tcaatgtatc aaaattgttt tcatcaggta cttctggatt aataaaggat      1380
aatgcaggtt tatagtttgt aaatatgaatg cagaaaatag atggattaat ctggtcaaca      1440
agttcaaata ctctttgagg tgggtttgct gtaaaattca atgaatagat gactgctttt      1500
tgactacaaa actggctgtc gcccgtgaca actggaactg agcaggcaga aaagacactg      1560
aaatccacgg agctgcagtc gggatcacag cagcagttga tgtcacactg tgctggggat      1620
aagtcacaga cacagagaac agcaacgtcc gtgactgggg taggcctggg ccggaggag      1680
ggccctggag ccctgggagt cccggggggc ctggtcgacg ggaaagttcc gaaggtggcc      1740
agggctgcct cggtggagtt gaggccctct gtcgtcaccg ccggggtggc atcggtctgg      1800
gcgctcacgg aggcccagca gcccaggagc accaccagga gcggcgggag acctcgcggc      1860
ctcatctccc agggagtccc agcgaggccc gcgacatgga cagcgcgttg cccggcaacc      1920
gcgacagcca ggcgcg                                                     1936
```

          <400> 5865
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caaggtgcgg cgggtagtgt actcattcga aggagaatac ccccaattca ctagacgagc       60
ccctaattgg gggtgcggtg ccgggcgcgc tctttcctcc cccttccac cagcactgcc       120
ctcagttctg cttctagcca cgcccttttcg cgttcacgtc cagcgccctg cgggattga       180
tttgaggacg actggactgc cattgcgcct gcgcagggag cccaaggcaa gagccgctag       240
gctgccctgc ccgaagggct caactgtcag tgagcctgcg caggaggcca ataggctgcc       300
```

```
aatactcctt ggactccccg ccagggccct gctgtcagtg cgcctgcgcg cgggtccggc    360
gccgaggttc ttgactgctg tgccggacgc caggtgtagc catgcagcga gccgattccg    420
agcagccctc caagcgtccc cgttgcgatg acagcccgag aaccccctca aacacccctt    480
ccgcagaggc agactggtcc ccgggcctgg aactccatcc cgactacaag acatggggtc    540
cggagcaggt gtgctccttc ctcaggcgcg gtggctttga agagccggtg ctgctgaaga    600
acatccgaga aaatgaaatc acaggcgcat tactgccttg tcttgatgag tctcgttttg    660
aaaatcttgg agtaagttcc ttgggggaga ggaagaagct gcttagttat atccagcgat    720
tggttcaaat ccacgttgat acaatgaagg taattaatga tcctatccat ggccacattg    780
agctccaccc tctcctcgtc cgaatcattg atacacctca atttcaacgt cttcgataca    840
tcaaacagct gggaggtggt tactatgttt ttccaggagc ttcacacaat cgatttgagc    900
atagtctagg ggtggggtat ctagcaggat gtctagttca cgcactgggt gaaaaacaac    960
cagagctgca gataagtgaa cgagatgttc tctgtgttca gattgctgga ctttgtcatg   1020
atctcggtca tgggccattt tctcacatgt ttgatggacg atttattcca cttgctcgcc   1080
cggaggtgaa atggacgcat gaacaaggct cagttatgat gtttgagcac cttattaatt   1140
ctaatggaat taagcctgtc atggaacaat atggtctcat ccctgaagaa gatatttgct   1200
ttataaagga acaaattgta ggaccacttg aatcacctgt cgaagattca ttgtggccat   1260
ataaagggcg tcctgaaaac aaaagcttcc tttatgagat agtatctaat aaaagaaatg   1320
gcattgatgt ggacaaatgg gattattttg ccagggactg ccatcatctt ggaatccaaa   1380
ataattttga ttacaagcgc tttattaagt ttgcccgtgt ctgtgaagta gacaatgagt   1440
tgcgtatttg tgctagagat aaggaagttg gaaatctgta tgacatgttc cacactcgca   1500
actctttaca ccgtagagct tatcaacaca aagttggcaa cattattgat acaatgatta   1560
cagatgcttt cctcaaagca gatgactaca tagagattac aggtgctgga ggaaaaaagt   1620
atcgcatttc tacagcaatt gacgacatgg aagcctatac taagctgaca gataacattt   1680
ttctggagat tttatactct actgatccca aattgaaaga cgcacgagag attttaaaac   1740
aaattgaata ccgtaatcta ttcaagtatg tgggtgagac gcagccaaca ggacaaataa   1800
agattaaaag ggaggactat gaatctcttc aaaagaggt tgccagtgct aaacccaaag   1860
tattgctaga cgtgaaactg aaggctgaag attttatagt ggatgttatc aacatggatt   1920
atggaatgca agaaaagaat ccaattgatc atgttagctt ctattgtaag actgcccca   1980
acagagcaat caggattact aaaaaccagg tttcacaact tctgccaaga gaaatttgca   2040
gagcaggctg attcgagtat attgtaagaa ggtggacaga aagagtttgt atgccggcaa   2100
gacaatattt tgttcagtgg gtgtgcagac aggaaatttc acccaagccg caggatgggc   2160
gatgttatta gcccccaact ccataacacc ctcaaaaaaa gggatgggaa cgacagtacc   2220
ttcagtccca aaatcccaac tcgcctcccg aggaggcttc ccaaaagcag agtccagct    2280
ttttaaagat gacccaatgt gaatgtctgt agtcagttgt ttacaaactc cctctcctgc   2340
acaattcatt tagaggcttc aatcataaaa ttctgcaaaa taatgacaac tcatgcttta   2400
attttgtatt ttgaatgtac acgcatgctg aagctaagta acttttaatc aaagaaataa   2460
gatggtatta gggcaaatct tactatacta tgaaaagcat taccttgcct atttttaata   2520
ttattaaagc ctttctcctt caaaaaaaaa aaaagggcg gggcgcttaa aagatccctc   2580
aggggggcca aaataacccc gagacgccca gctgtaagct tttcccttat gagggcctaa   2640
ttataaacca aacttggacc cttttggaaa ggaccttaac ttcgggggag cacaaaa      2697
```


<210> 5866
<211> 3464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3465)
<223> n = a,t,c or g

<220>
<221> misc_feature

<222> (1430)...(3052)
<223> similar to gi4773880 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5866

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atgcagtggt cagtgataat ggaatacttg aaagtaatcc cctcactcca ggaactagtg     60
ctcagctagc agaactaata gccctcactt gggcactaga attaggagaa gaaaaaaggg    120
caaatatata tacagactct aaatatgctt acctagtcct ccatgcccat gcagcaatat    180
ggaaagaaag ggaattccta acttctgaga gaacacctat caaacatcag gaagccatta    240
ggaaattatt attggctgta cagaaaccta aagaggtggc agtcttacac tgccggggtc    300
atcanaaagg aaaggaaagg gaaaatactt ttgcctgcaa ctatccaatg gaaattactt    360
aaaacccttc atcaaacctt tcacttaggc atcgatagca cccatcaaat ggccaaatca    420
ttatttactg gaccaggcct tttcaaaact atcaagcaaa tattcagggc ctgtgaattg    480
tgccaaaaaa ataatcccct gcctcatcgc caagctcctt caggaaaaca aaaaacaggc    540
cattaccctg aaaaaaactg gcaactgatt ttacccacaa gcccaaacct cagggatttc    600
agtatctact agtctgggta aatactttca cgggttgggc aaaggccttc ccctgtagga    660
cagaaaaggc ccaagaggta ataaaggcac tagttcatga ataattccc agattcggac    720
ttccccgagg cttacagagt gacaatagcc ctgctttcca ggccacagta acccagggag    780
tatcccaggc gttaggtata cgatatcact tacactgcgc ctgaaggcca cagtcctcag    840
ggaaggtcga gaaaatgaat gaaatactca aaggacatct aaaaaagcaa acccaggaaa    900
cccacctcac atggcctgct ctgttgccta tagccttaaa aagaatctgc aactttcccc    960
aaaaagcagg acttagccca tacgaaatgc tgtatggaag gcccttcata accaatgacc   1020
ttgtgcttga cccaagacag ccaacttagt tgcagacatc acctccttag ccaaatatca   1080
acaagttctt aaaacattac aaggaaccta tccctgagaa gagggaaaag aactattcca   1140
cccttgtgac atggtattag tcaagtccct tctctctaat tccccatccc taggatacat   1200
cctgggggaa gggacccta cccagttcat ttttatttta ccccaattgc gggtttaaag   1260
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cctgaaaatc caggagacaa cgctagctat tcctgtgaac ctctagagga tttgcgcctg   1380
ctcttcaaac aacaaccagg aggaaagtaa ctaaaatcat aaatccccca tggccctccc   1440
ttatcatatt tttctctttta ctgttctttt accctctttc actctcactg cacccccctcc   1500
atgccgctgt atgaccagta gctccccctta ccaagagttt ctatggagaa tgcagcgtcc   1560
cggaaatatt gatgccccat cgtataggag tctttctaag ggaacccca ccttcactgc   1620
ccacacccat atgccccgca actgctatca ctctgccact ctttgcatgc atgcaaatac   1680
tcattattgg acaggaaaaa tgattaatcc tagttgtcct ggaggacttg gagtcactgt   1740
ctgtcggact tacttcaccc aaactggtat gtctgatggg ggtggagttc aagatcaggc   1800
aagagaaaaa catgtaaaag aagcaatctc ccaactgacc cggggacata gcacccctag   1860
cccctacaaa ggactagttc tctcaaaact acatgaaacc ctccgtaccc atactcgcct   1920
ggtaagccta tttaatacca ccctcactgg gctccatgag gtctcggccc aaaaccctac   1980
taactgttgg atatgcctcc ccctgaactt caggccatat gtttcaatcc ctgtacctga   2040
acaatggaac aacttcagca cagaaataaa caccacttcc gttttagtag gacctcttgt   2100
ttccaatctg gaaataaccc ataccctcaaa cctcacctgt gtaaaattta gcaatactac   2160
atacacaacc aactcccaat gcatcaggtg ggtaactcct cccacacaaa tagtctgcct   2220
accctcagga atatttttttg tctgtggtac ctcagcctat cgttgtttga atggctcttc   2280
agaatctatg tgcttcctct cattcttagt gcccccctatg accatctaca ctgaacaaga   2340
tttatacagt tatgtcaata tcctaaagcc cccgcaacaa aagagtaccc attcttcctt   2400
ttgttattgg agcaggagta ctaggcggac taggtactgg cattggcggt attacaacct   2460
ctactcagtt ctaccacaaa ctatctcaag aactaaatgg tgacatggaa caggtcgccc   2520
gactcccctg gtcaccttgc aagatcaact taactcccta gcagcagtag tccttcaaaa   2580
tcgaagagct ttagacttgc taaccgctga aagaggggga acctgtttac ttttagggga   2640
agaatgctgt tactatgtta atcaatccgg aatcgtcact gagaaagtta aagaaattcg   2700
agatcgaata caacgtagag cagaggagct tcgaaacact ggaccctggg cctcctcag   2760
ccaatggatg ccctggattc tccccttctt aggacctcta gcagctataa tattgctact   2820
cctctttgga ccctgtatct ttaacctcct tgttaacttt gtctcttcca gaatcgaagc   2880
tgtaaaacta caaatggagc ccaagatgca gtccaagact aagatctacc gcagacccct   2940
```

```
ggaccggcct gctagcccac gatctgatgt taatgacatc aaaggcaccc ctcctgagga   3000
aatctcagct gcacaacctc tactacgccc caattcagca ggaagcagtt agagcggtcg   3060
tcggccaacc tccccaacag cacttaggtt ttcctgttga gatgggggac tgagagacag   3120
gactagctgg atttccttag gctgacctaa ggantccctg aagccttagc tggggaaggg   3180
tggaccacat ccacctttt aaaacacggg gggctttgca actttaggtt cacaccttga   3240
ccaatcagag agctcactaa aatgcctaat taggcaaaga caggaggtaa agaaatagcc   3300
aatcatctat tgcctgagag cacagcagga gggacaatga tcgggatata aacccaagtc   3360
ttcgaagcgg caacggcaac cccctttggg tcccctccct ttgtatggga gctctgtttt   3420
catgctattt cactctatta aatcttgcaa ctgcaaaaaa aaaa                     3464
```

<210> 5867
<211> 7104
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (90)...(5251)
<223> similar to gi4096591 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5867
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tttcgtccgg gcttgaggtt gaattaagaa tagtcaggtg gtgagtggaa cgtctcttgg     60
ggtgtcggaa ttcaaaacgg acctggagga tgttgatctc caagaacatg ccctggcggc    120
ggctgcaggg catttccttc gggatgtatt cggctgaaga gctcaagaaa ttaagtgtta    180
aatccattac gaaccctcga tacctggaca gcctggggaa cccatcggca aacggcctgt    240
acgatttagc tttgggccct gcagattcca aagaggtgtg ctccacctgc gtgcaggact    300
tcagcaactg ttctgggcac ctgggccaca ttgagctccc actcacagtg tataaccctc    360
tcctcttcga taagctgtac ctgctgcttc ggggctcttg tttaaactgc cacatgctga    420
cttgtccccg ggccgtgatt cacctcttac tctgccagct gagggttctg gaagtcgggg    480
ccctacaagc agtctacgag cttgagagaa ttctgagcag gtttctggaa gaaaatgccg    540
atccctctgc ctctgaaatt cgggaggaat tagaacaata cacaactgaa attgtgcaga    600
acaacctcct ggggtcccag ggcgcacatg taaagaacgt gtgtgagagc aagagcaagc    660
tcattgctct cttctggaag gcacatatga atgctaagcg ctgtccccac tgcaagaccg    720
ggcgatccgt tgtccgaaag gaacacaaca gcaagttgac tatcacattt ccagccatgg    780
tgcacaggac agctggccag aaggactctg agcccctggg aattgaggaa gctcagatag    840
gaaaacgagg atacttaaca cccaccagtg cccgcgaaca cctttctgcc ctgtggaaga    900
atgaaggatt ctttctgaac tacctttttt cgggaatgga tgatgatggt atggaatcca    960
gattcaatcc cagtgtgttc tttctagatt tcttggtggt gccgccctca aggtctcgcc   1020
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tcatgaagga tgtagttctg attcgaaaac ttctggcatt gatggcccaa gaacagaagt   1140
tgccagagga agtggccaca cccactacag atgaggaaaa agactctttg attgctattg   1200
accgatcctt tttgagtaca cttccaggcc agtccctcat agacaaactt acaacatttt   1260
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acatgatggg aaagcgagtg gactacgctg cgcgctcagt catctgccca gacatgtaca   1440
tcaacaccaa cgaaattgga attcccatgg tgtttgccac aaaactgacc tacccacagc   1500
cagttacccc atggaatgtt caggaactta ggcaagcggt catcaacggc cctaatgtgc   1560
acccaggagc ctccatggtc atcaatgagg acggcagccg cacagccctg agcgctgtgg   1620
acatgaccca gcgagaggcc gtggccaagc agcttctgac cccagccacg ggggcaccta   1680
```

4407

```
agccccaggg gacaaaaatt gtgtgccggc atgtgaagaa tggggacatt ctgctactga    1740
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aagagaaagt gctgcggctc cactatgcca actgcaaggc ctataatgcc gactttgatg    1860
gagacgagat gaatgcccat ttcccccaga gtgagctggg ccgggccgag gcctacgtcc    1920
tggcctgcac tgatcagcag taccttgttc ccaaggatgg ccaaccattg gcgggactga    1980
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tgctcataaa tataatccca gaggaccaca tcccactgaa cttatctgga aaggcgaaaa    2220
tcactgggaa agcctgggtg aaggaaactc ctcgatccgt tcctggcttt aaccctgact    2280
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gcgagaccag cggcaaggtt ctaacctgcc tggcccgcct cttcaccgcc tacctgcagc    2460
tctacagagg cttcaccttg ggcgtggaag acattttggt gaagccaaag gcagatgtca    2520
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taaacctgcc agaagccgca tcatatgatg aggtccgagg aaaatggcag gatgcccatc    2640
tgggcaagga ccagagggat tttaacatga ttgatctgaa gttcaaggag gaagtgaacc    2700
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gcatcatcaa gcacctagag gggctggtcg tgcagtatga tctcacggtc cgtgacagtg    3120
acggcagtgt ggtgcagttc ctgtatgggg aggatggcct ggacatcccc aagacacagt    3180
tcctgcagcc caagcagttc cccttcctgg ccagcaacta cgaggtgata atgaaatcac    3240
agcatctcca tgaagtttta tccagagcag atcccaaaaa agctctccac cacttcagag    3300
ctatcaaaaa atggcaaagc aagcacccca acaccctgct gagaagaggc gccttcttga    3360
gttattccca gaaaattcag gaagctgtga agccctgaa acttgagagt gaaaaccgca    3420
atggccgcag ccctgggact caggagatgc tgaggatgtg gtatgagttg gatgaggaaa    3480
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ctccctctga tgaagatcaa ctttgacatg agctccctgg tagtatcttt ggcccatggt    4740
gccgtcatct atgcgaccaa gggcatcact cggtgcctcc tgaatgaaac aaccaacaat    4800
aagaacgaga aggagcttgt gctaaacaca gaaggaatca acctcccaga gctattcaag    4860
tatgcagagg tcctggatct cgcgccgctc tactccaacg acatccacgc catagccaac    4920
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gtgtatggca tcgcggtcga ccctcgccat ctctccctgg ttgctgatta tatgtgcttc    5040
gagggtgttt acaagccact gaatcgcttt gggatccggt caaactcttc cccgctacag    5100
```

```
cagatgacat ttgaaaccag cttccagttt ctgaagcaag ccaccatgct gggatcccac  5160
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ggcctgttcg agctcaagca gcctctgaga tagcagctac cccggcacca tctgcccagc  5280
tccaaggacc cttggtgagg gcgtggccca gcctgccttc tgcatgagag gaccaggaga  5340
ctggaatcca gggcagttcc aagtgacagt acagagcaca gcagcgacct gggcctgaa   5400
agcagtgggc ctctgagctg ggccagcttc acctggaaag tgacagagtt gctcatcctt  5460
gcccctccct gtctctggat ttttatcaag gtttaccaag tcttctgagt cccctgaga   5520
tggctggggc ctcacctgtg ctgcaggagg cctctgtggc ataacccta aggagaagtc  5580
ctgattcacg attcactgag aagaccaagg ggaagccatg ctttgctgct ggggacccca  5640
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ctgagtcaag tacagcgtag catagtcctc cacccaccca acctctctgc ctggccaggg  5880
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gagcagtcgc tccagggccg cagcagttca ctcccacaca tagaacccag gtcactgctg  6000
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gtttgcagtt tctgcatttg gatttgagaa cccaggcgg gatttttctt ggcacagtca  6420
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agggaggctt tgtcaaggga gagtgaccat gttgctccct acatccatgc aataggaccc  6720
agcctgcacc tcctaggcct acactgggga aagcctgaca gaaatcagta cctcctaacg  6780
gggtctgcca ggttcaccaa ggcatgggca cagaggaata tgacagtttt gaggcaggca  6840
ggaagggccc agcctgcagg gtaagacatt cattctttga gttaaaggcc atattcactt  6900
gatgatttct acacacacta gaattgtgag agtgtccttg aaggagatca caaagtaacc  6960
tggtgactgt ggcacagggt ccgtggattc catctctccc aggcactgag ggcgcagagg  7020
cgaaggagca agccctgcat attggcaggg ctgtgaccat cgcacttaga tcagacccc   7080
gacctgtgtt gggatgtgag ggag                                         7104
```

<210> 5868
<211> 5127
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (331)...(4654)
<223> similar to gi31958 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5868
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tttcgtggcg gcgtcgggta cgcgcacacg ttgcatcttc ttcctttcgc ggggtcctcc    60
gtagttctgg cacgagccag gcgtactgac aggtggacca gcggactggt ggagatggcg   120
acgctctctc tgaccgtgaa ttcaggagac cctccgctag gagctttgct ggcagtagaa   180
```

```
cacgtgaaag acgatgtcag catttccgtt gaagaaggga aagagaatat tcttcatgtt    240
tctgaaaatg tgatattcac agatgtgaat tctatacttc gctacttggc tagagttgca    300
actacagctg ggttatatgg ctctaatctg atggaacata ctgagattga tcactggttg    360
gagttcagtg ctacaaaatt atcttcatgt gattccttta cttctacaat taatgaactc    420
aatcattgcc tgtctctgag aacatactta gttggaaact ccttgagttt agcagattta    480
tgtgtttggg ccaccctaaa aggaaatgct gcctggcaag aacagttgaa acagaagaaa    540
gctccagttc atgtaaaacg ttggtttggc tttcttgaag cccagcaggc cttccagtca    600
gtaggtacca agtgggatgt ttcaacaacc aaagctcgag tggcacctga gaaaaagcaa    660
gatgttggga aatttgttga gcttccaggt gcggagatgg gaaaggttac cgtcagattt    720
cctccagagg ccagtggtta cttacacatt gggcatgcaa aagctgctct tctgaaccag    780
cactaccagg ttaactttaa agggaaactg atcatgagat ttgatgacac aaatcctgaa    840
aaagaaaagg aagattttga gaaggttatc ttggaagatg ttgcaatgtt gcatatcaaa    900
ccagatcaat ttacttatac ttcggatcat tttgaaacta taatgaagta tgcagagaag    960
ctaattcaag aagggaaggc ttatgtggat gatactcctg gtgaacagat caaagcagaa   1020
cgtgagcaga ggatagaatc taaacataga aaaaaccta ttgagaagaa tctacaaatg   1080
tgggaagaaa tgaaaaaagg gagccagttt ggtcactcct gttgtttgcg agcaaaaatt   1140
gacatgagta gtaacaatgg atgcatgaga gatccaaccc tttatcgctg caaaaattcaa   1200
ccacatccaa gaactggaaa ttaataccaa tgttttatcc aacatatgat tttgcctgcc   1260
ccatagttga cagcatcgaa ggtgttacac atgccctgag aacaacagaa taccatgaca   1320
gagatgagca gttttactgg attattgaag ctttaggcat aagaaaacca tatatttggg   1380
aatatagtcg gctaaatctc aacaacacag tgctatccaa aagaaaactc acatggtttg   1440
tcaatgaagg actagtagat ggatgggatg acccaagatt tcctacggtt cgtggtgtac   1500
tgagaagagg gatgacagtt gaaggactga acagtttat tgctgctcag ggctcctcac   1560
gttcagtcgt gaacatggag tgggacaaaa tctgggcgtt taacaaaaag gttattgacc   1620
cagtggctcc acgatatgtt gcattactga agaaagaagt gatcccagtg aatgtacctg   1680
aagctcagga ggagatgaaa gaagtagcca aacacccaaa gaatcctgag gttggcttga   1740
agcctgtgtg gtatagtccc aaagttttca ttgaaggtgc tgatgcagag actttttcgg   1800
agggtgagat ggttacattt ataaattggg gcaacctcaa cattacaaaa atacacaaaa   1860
atgcagatgg aaaaatcata tctcttgatg caaagttgaa tttggaaaac aaagactaca   1920
agaaaaccac taaggtcact tggcttgcag agactacaca tgctcttcct attccagtaa   1980
tctgtgtcac ttatgagcac ttgatcacaa agccagtgct aggaaaagac gaggactttta   2040
agcagtatgt caacaagaac agtaagcatg aagagctaat gctaggggat ccctgcctta   2100
aggatttgaa aaaaggagat attatacaac tccagagaag aggattcttc atatgtgatc   2160
aaccttatga acctgttagc ccatatagtt gcaaggaagc cccgtgtgtt ttgatataca   2220
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aagccacaaa aaatgagacc tctgctcctt ttaaggaaag accaacacct tctctgaata   2340
ataattgtac tacatctgag gattccttgg tcctttacaa tagagtggct gttcaaggag   2400
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aacagctttt gtctttgaaa gctgaatata aggagaaaac tggccaggaa tataaacctg   2520
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aagcccctaa ggatcaagta gatatagctg ttcaagaact ccttcagcta aaggcacagt   2940
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gaaaatcttg ctgattggta ttctcaggtc atcacaagt cagaaatgat tgaataccat   3240
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gacttttttg atgctgagat caagaaactt ggtgttgaaa actgctactt ccccatgttt   3360
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gcttgggtta caagatctgg caaaaccgag ctggcagaac caattgccat tcgtcctact   3480
agtgaaacag taatgtatcc tgcatatgca aaatgggtac agtcacacag agacctgccc   3540
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gcaattcctg ttgttaaagg aagaaagacg gaaaaggaaa aatttgcagg aggagactat    3780
acaactacaa tagaagcatt tatatctgct agtggaagag ctatccaggg aggaacatca    3840
catcatttag ggcagaattt ttccaaaatg tttgaaatcg tttttgaaga tccaaagata    3900
ccaggagaga agcaatttgc ctatcaaaac tcctggggcc tgacaactcg aactattggt    3960
gttatgacca tggttcatgg ggacaacatg ggtttagtat taccaccccg tgtagcatgt    4020
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aagttaacag tggataaaag acttttctgt aaacaactcc agtaataaat atcatgaact    4860
aatatggttt ttgtattcat ttgtttctga aaaatgtgca ttatgtacta tgaggaaatt    4920
tctacaaaga gatgaagaca attgaaagcc agctatctgt tattgatcta agcactccca    4980
acatgtctca gaccctgaac cgccagttat accctacact gataggtctc gaagcacttt    5040
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aagcaaaccc acaaatggaa aaagcac                                      5127
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<210> 5869
<211> 1368
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (366)...(1222)
<223> similar to gi241467 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5869
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aatctcttca attctcacct gacctaaaat ctaagcatct tattttcttc tgcaatgctg     180
cttgaccca atataaactc gacaggagtt ccaaatagcc agaaaatggc acattcaatt     240
tttccatcct acaagatcta aataattctt gtcgtaaaat ggcaaatggt ctgaggtgcc     300
tgaagtccag gcattctttt acacatcagt cccttcctag tctctgtgcc cagtgcaact     360
cgtcccaaat cttccttctt tccctcccgc ctgtcccctc agtcccaacc ccaagcgtca     420
ctgagtcttt ctaatcttcc ttttctacag acccatctga cctctcccct cctccctggg     480
ctgctcctcg ccgggctgag ctaggtccca attcttcctc agcctccact cctccaccct     540
ataatccttt tatcacctcc cctcctcaca ccccgtccgg tttacagttt cattccgtga     600
gtagccctcc ccctcctgcc cagcaattta ctcttaaaaa ggtggctgga gctaaaggca     660
```

4411
```

```
tagtcaaggt taatgctcct ttttctttat cccaaatcag atagcgttta ggctcttttt       720
catcaaatat aaaaatccag cccagttcat ggctcatttg gcagcaaccc tgagatgctt       780
tacagcccta gaccctaaaa ggtcaaaagg ccgtcttatt ctcaatatac attttattac       840
ccaatctgct cccgacatta aataaaactc caaaaattaa attccggccc tcaaacccca       900
caacaggatt taattaacct cgccttcaag gtgtacaata atagaaaaaa gtttcaattc       960
cttgcctcca ctgtgagaca aaccccagcc acatcttcca gcacacaaga acttccaaac      1020
ggctggaccg gcagcagcca ggcggttcct ccagaacctc ctcccacagg agcttgctac      1080
acgtgccgga aatctgggca ctgggcaagg gaatgcccgc agcctgggat tcctcctaag      1140
ccacgtccca tctgtgtggg accccactga aaatctgact gttcaacttc acctgggcag      1200
ccactcccag agcccctgga actctggccc aaggctctct gactgactcc ttcccagatc      1260
ttgggcttag cagcttgaag actgacactg cccgatcgcc tcggaagccc cggagaccat      1320
cacggacgcc gagctgccag taactctcac agtggaagct atctggtc                   1368
```


<210> 5870
<211> 1553
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (373)...(1306)
<223> similar to gi2183323 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5870
```
cgcgtccgcg gacgcgtgga cggacgcgtg ggcgtctctt ggcccgcgct taaggccctc        60
gcggggggct tgtgggtcct cctcccccctc ccactgacaa ctgccccaac tgctcttccc       120
gccccggtca cagtgaaaat gtagacgggg tcgttgtccg tacgactgtg cgccagggct       180
cggggagggg cgccctccgc gtgagcgccc ccctgggaat attgaacata atcacctctc       240
attccagact atgttaggtc ttaatggtgg gaggacgccc gagtgctcgg cccgtttcac       300
cccgaggagg aaggacactg ggtcatgacg ccatcagagg gcgccagagc agggaccgga       360
cgcgagttgg agatgttgga ctcgctgttg gccttgggcg gcctggtgct gcttcgggat       420
tccgtggagt gggaggggcg cagtctcttg aaggcgcttg tcaagaaatc tgcactgtgt       480
ggggagcaag tgcatatcct gggctgtgaa gtgagcgagg aagagtttcg tgaaggtttt       540
gactctgata tcaacaatcg gctggtttac catgacttct tcagagaccc tctcaactgg       600
tcaaaaactg aggaggcctt tcctgggggg ccgctgggag ccttgagagc catgtgcaag       660
aggacagatc ctgttcctgt caccattgct ctcgattcac tcagctggct gctacttcgc       720
cttccctgca ccacactctg ccaggtcctg catgctgtga gccatcagga ctcttgtcct       780
ggtgacagct cctcagtggg gaaagtgagt gtgctgggct tgctacatga agagcttcat       840
ggaccaggcc ctgtgggagc tctcagcagc cttgctcaga ctgaggtgac cctgggcggt       900
accatgggcc aggcctcggc ccacatcctg tgtcggaggc cccgacagcg cccaactgac       960
cagactcagt ggttctccat ccttccggac ttcagcctgg atctccaaga ggggccctct      1020
gtagagtccc agccctactc cgatcctcat ataccccgg tatctaagaa tgccaaggcc      1080
agaacaagga aatgtagttt agtatctggt cacgggagag aaaataaaag ctgcagaggt      1140
tgggggtggg gtcagggatt ctagggatgg ggcagagtgg cagcatcctt tgtacctaca      1200
ggtggatccc acaactcatt tgacctttaa ccttcacctg tccaagaaag agagagaagc      1260
cagagatagc ctgatcctgc ccttccagtt cagttctgaa aagtaaggtt gggacctggg      1320
tacgtggatc cctgagtaga tcccagcatc tgggccatgg agaggttggg gcaacaggtt      1380
attgattaac ctgactttat agggactgaa gtccacctcc agagacaagt ccaagttctt      1440
gatccaccca ttcccctat aatggcagag gaccttatg tctctttct ctcccttata      1500
```
```

                                    4412
```

<210> 5871
<211> 1831
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1718)...(746)
<223> similar to gi5668733 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 5871
```
ccatctcaaa attcttaatt ctatctgcaa agattctttt ccaaataaag taatatttat   60
aggttctgag ggttagggca tgaacatatc ttttgagggc taccatttga tccatagctg   120
ttcagcggtt tacattctcg gatttgacag tggcatgctt cacttgtgac tgtgccattc   180
tggaatgagg ttgaccagat ggtgctgctg gccacgtcaa actcatccta caggctgtag   240
caagcaaggc tcacacctcc ccatgtctga cacctgtgaa tcacagctgg gtctctggaa   300
aaatgagtga gtgcaggaac aaaatcaaac aggagacctc atccaccact aggtctcaga   360
gaggacattg cagcccctga aaagagagca tctctcttgg aacttttgta ctcagttgta   420
ttaacgcggc aaggaaaatg gcacatttat gttggaaaat gtaattattt atggcacctg   480
tgacaactgg gcactttgga atcacaaagt ttatggttga agaccacttg gggtgattat   540
cctccaaaat gtttatttgg cttcttgaag ttctgcagag gttgaggcag ctgtctcaaa   600
actagaggac agagccctgt gggcaggtgg gtgtgagaaa ctcaaacacc gcagtcttca   660
cagacccaca agctattggc aggtgcaatg tgtttcttgg ggcagcagct atcctgagac   720
aggatatcac agggtcacat caaggacccc agtcatctca caactcttag accacagctg   780
ctgctgcagt ttctggttgt aggtgacgtg gagggacttg gtctctttct tgttgtatag   840
gtaacggcca ccaactcctt ccagctctgg ggtgactgct gcgtagatgg aagtccacgc   900
tccttcatcg ggggtcttga aaagcaacca gccgagaagc ttcttcgcca gacgggtggc   960
ccagaacacg tgcttgtaga ggtccgtgtt gaccaccccg gggtccacca cgttggcggt   1020
cacgtggctt ccctcagccg ccagcagccg ctggaggtgg taggtgaaca ggacaagggc   1080
cagcttgctc tgggcgtagg ctgcgtgggg tgagtagcag gcactgctct gaaggtcatc   1140
catgttcagc tcagcgacgt aatgggtggc agaggagacg gtgaccaccc tcgcactgtg   1200
gccaggggac ccagactctt tcagcgtatc caagagaagg ttggtcagca ggaagtgccc   1260
taggtagttc aggccgaaat gttcttcgaa tccatctctg gttttcctct gagggaccat   1320
catcacccca gcattgttga tcaggacatg gagaggaatc ttcttcatct tgaacttctg   1380
cacaaactgc cggatggaag tcatggaagc caagtcacag tataaaaatt ccaaattttta   1440
ggaggaaatg atggtgcacg cctgtagtcc cagctcctcg agaggctgag gtgggaggat   1500
cgcttgagtt ccagaggcaa agccagcccg ggcaacacag caagactcac gtctctttgt   1560
cgttcaaggt ttcttctttt attttgctta caacttgttt ggctttgctg tcattatttc   1620
cagctatgat aacatgcatg ccaagtctcg ccagatgctt cgctgtagaa tagccaatgc   1680
catctgtccc tcccgtcact atagcgacac ggtcaggtcg tgggggaaa acctggggtg   1740
ggtaggggtc gaggtccctg ggacgcccgc tcctcccctc cggggcctgg cgggggcgcg   1800
cggtcactgg ccgaccgcag gcggcaggca g   1831
```

<210> 5872
<211> 774
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (202)...(774)
<223> similar to gi1389766 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 5872

```
ggaggaaaca cacattaaaa ataaattaaa accttaatta tttaattaca agcgtgataa      60
atgctaaaaa taggaggcac aggaaagcag gataacctat aattggagga aaacctgtct     120
gggagatcaa gaaggcattc ccatacattg tcgtgacaac cttttttgga aggcaatact     180
gaagtctatt aaatgacaca gctccttcga cctagctgtt ccactttagg aataaaagta     240
atatagcaat aaaagtaata ctacttaaag cagcatgtgg ctttggctcc cagtgaagtt     300
gcaggtgtta caaagcataa tatgcctcca agccaggctg cccaaaaggt caaatccaga     360
aaccagtcta atagactgag gaaagcaagt gaaggtaact tgacacgcca taaagaactg     420
ttcaagtgag tggactcatt gtgagatgcc tgatgcactc cagagaaatc agatttaggt     480
ccaatagcat aatacaagaa gtcaagcacg tgagggcctc ctgtgagatc tcgatggggc     540
agccaggcac ggggactcac gcctgtaatc tcagcattct gggaggccaa ggctggagga     600
tcatttgagc ccaggagttc aagattagcc tgggcaatat ggtgaaaccc catttctaca     660
aaaaaataca aaaaaaatta actgggtatg gtggtggtgt gtgcctgtag taccatctac     720
tggtgggagc tgaggtagga ggatcacctg agcctggaag gttgaggctg taag          774
```


<210> 5873
<211> 1322
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1116)...(203)
<223> similar to gi311667 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5873

```
tttttttttt ttcacattac cgaaaggcca agtaatgtgg tgtgattact ataattccta      60
caacaaaact tccacttaga atagttacat gttcccaaac tatttttctt ctgtctgcca     120
tgctggcttc tgtatcccat ggtccactgt aatctttttg gtcttctttt tttgcagtac     180
agcagtcctc gtgctgctat ccattgagta ggtaaaccac caattcatag gtggccatca     240
taatggctgt gtttgggaat ctgtctcact agatgagttg tcagaccacg ataaagagac     300
ccataacctt cttcttgaac aagcaaagat agagtctgaa aaaaagatct gtattttgtt     360
ccctcttcac gtagtcttgt tcttacaact tcatgtggat atgctatagt tgtggcaaca     420
agttttgag gtggcagcag ctagcatcat tcccacaaaa tctgatgctt ctttcacaga     480
ctcttcatca ttttccattg tagaagcagt cttatattcc agtagttttt gttttatact     540
```

```
ttcataaata acaaaatgga taacagtctc tgatatacca gcatatgaag cagacatgcc    600
cctataaaat cctttagtc catctgtctg atacacttta cgaacacatt caaaagcacc    660
cattcgcctt ttccccgcgg ttccttgcat caaagctgta accgagtctt tataagccaa    720
atggggttgg ttgctgtgat tgcagtaaaa cctgccattg cagctgaaat catatgtact    780
tgggtagaat caggatcaaa tacatcattc aacttttcct tgcagtttga ataagcagca    840
aagtatattg ctctggaagg ggctacccc actaaattgg ggcctagtcc tctaaacaag    900
gaacgaggcc cttctttttc caagatcacc tttaggcaat gaagaggtcc gggagacact    960
actcggttga cactggctcc agccatggtg ttcagctgaa cttcagaaat ataaagcgtc   1020
acagaagatg actgcagtcg tgtttttaca acttccagtg gacatgtcag aatagctccc   1080
actgtaccac cacatcctcc ggcaaacaga tgcaccagcg tgtccctctg gctcattctc   1140
tctcccgcat gtcctccggc cgctgaggcg ggacgcggat ctggccgccc gctacggcag   1200
gcggcttcgg tcccggactg gagacgcaca gcgccccggg gacggcgagg agagctggcc   1260
gagatgcggc tgcagaaagc aaccggcaca gccctccccg cggcactcca gccgcgacga   1320
aa                                                                  1322
```


<210> 5874
<211> 1038
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (776)...(992)
<223> similar to gi299471 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5874
```
tttcgtctcg gttagggcct catcgctctg ctcccgctcc ttagggaagc ctcggtgatt     60
ctgccacagc ctcagcctct gtggctctgt gacctgccgg tattggatga ttcgtatcta    120
agactctggg acactcctga agtcgggaaa tggtgagtgt gcagggcagg gcgtcccaag    180
gctgtggagg cctcatcgga accggcggga aatggcggcg gtgggaggag tctgtgaatg    240
gagttcccgc tcagccctct gtcctcagtc ccctccggtg agggacccgc gctcttgtca    300
gtccccgtac agcggctctg gcccagcctg cagccctcct tgtgcagctc tgcgccggta    360
gccctgcact ttccccgggc tgtggagtga gtaggagctc atccggaaga caccgcggcg    420
gcctgcgcgg tgccggcgtg ggaggagctg tggtccggaa tcccgtccct actttaccct    480
gttcagaatg agattgaggc cccatcaaaa catggagttc atgtgagcaa acaggactta    540
ttaatgggaa agctctgccg tggctcgtgg tttggggact gccagcgggt cttgaaggaa    600
aggctttgt gaggtgtgtg aggaagcgaa gcaaatcacc tgcctgcgcc aactttgccg    660
ccagtcccct tgccctgtgc gcctcctccg cgtggctgtt cctgaatacg ctggtgtctg    720
ttcgcatctt ttagaatacg ctggtgtcgg tgcgcacagc gcttctctta gttctacgga    780
gtcttcgctg tgtcgccagg ctggagtgca gtagtgcgat ctcggctcac cgcattctcc    840
acctcccagg ttcaagcgat tcacctgctc agcctcctga gtagttggga ttacaggcgc    900
gccaccacac tcagctaatt tttttgtatt tttagtagag acggggtttc gccatgttgg    960
ccaggatggt ctccatcttc tgacctcatg atccaccagc ctcggcctcc caaagtgctg   1020
ggattatagg cgtgagcc                                                 1038
```

<210> 5875
<211> 1762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1678)...(388)
<223> similar to gi23874 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5875
```
tttttttttta taaattcatg acactttta ctatgcccca ttgcacgttc tcatccatgg     60
atttgccttg ccgttaagaa ttaattaacc atggccttgt ggccctgggc tgacccaggc    120
tgcgttttat cttgcacagc taaaagaggt tctgatgggt ggctcaacac cccaacccaa    180
ctcctaatac catgtcatca agtgttcaca attttccaaa atgaagttga agtgccttga    240
tctgtccact gccaccacca accagtgctg gagttttccc atgtgggttt tgcttttgt     300
ggtgttaact ggcccttgct gctaagagca agcaaggact gttctgcgta agcgcctgcc    360
agcctgggga cctcactcaa gttccccagg ggtattcaaa gaccggcagc gggctcccat    420
tccagctccc gatggcacat ggacaaccac tccggtatgc cctcttccca cgggcgcttc    480
agcttcattg agcaagcgtg atgacctgta cgtgccccca gtgcagccca aggggtggc     540
cctaagggcc actggcaccc cccagggggg ttcacccttc tcaggggga agtcgtagct    600
tctccacaca gtaggcagcc tggcttgcaa aggccctcat tgatctcgaa gatgtccacg    660
tcactcactg tcagccctgc tttttgcaaa gctactggga tggcataggc aggtccaatg    720
cccatgatgt caggtgggac cccaaccact gcataagacc tcaggacccc aaggatggga    780
aggcccaact cttctgcctt ggacctccgg gccagcagga tggcagctgc cccatcactc    840
acctggctag agtttccagc tgtggtagaa ccatctttct tgaaggcagg cttcagtttg    900
gccaggccct ccatggtggt gctggggcgg ataccctcat cctgggtcac agtgatgctc    960
ctcttggtgc ccttgtcatc atggaccgtg gtggtcacag gcacaatctc agcttggaaa   1020
cagcccttgc tctgggctct tgctgccttc tgctgggaag ccagggcaaa ggtatcctgc   1080
ttctcccgtg aaatgccaaa ccgctcagcc acattctcag aggttatccc cataggaatc   1140
aggcaatctc tggccttctc cttctccatc aagcgcgaag taatatttcc agggttccct   1200
ctgtcagcca gggacatgga ctccacccca caggccatgc caatgtcata agacccattt   1260
ctgatgccac ctgctatgct ggccactgcc tgtagccccg acgaacactg tctattgaca   1320
gtggacaaag gcacagtctc cgggatgtca ctcagaaact gggcgattcg ggccatgatt   1380
gccccggccc caggctgcag cacatttccg acacagatgt cccccagctg ttccggcctc   1440
agattcacgt ccttgagaac cgcggtcatg actgccgaga gaagctcgtc ggggtggtg   1500
tccttgaagc cgccgcggcc cgcccggcag atggccgtgc gccgccgtg caccaccacc   1560
acatccgcgg ccgaggcatg cggggcaccg ctcaggcaag gcgcggcctg cggcatccag   1620
ccggaatcgg ccggacccct caggtggccc agcactacct gcagcctctg cattgcgcag   1680
gtcaaccctg cagaccagcc accagtccgg gaactgaccg cggagttaac agacagccgt   1740
ccgcacacgc gcagaaccac at                                            1762
```


<210> 5876
<211> 1140
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (1108)...(443)
<223> similar to gi4454696 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5876
gggaggaaag ggaaggtatt agacgccgcg cggggattgg tttttgtgtg taattatggg   60
atagggttgg tgagatggtt ttgggttggg agtggtgttg gtggttgttt atatgttttg   120
gaggagtggg actccataag ccctttctgt aatataagta tgctaaatgc cacggaagcc   180
agatacattt attaaatcta ctcttagcca agcaataaag atgtgtacag agttcacaac   240
ctgcaacact tcaccaggga atgctaggta aaggcaactt cagtttaact gagtactcca   300
tttcaagtgg gtaatgtctg ctggttggca gctatccagt ttggaaaact gtggaagatg   360
ctgttgctac ccagattgtt ctgttcaaca agtgggcctg aagcctgagc agtgtagcca   420
gctgtgtggg gagcagaggt tcactccatt gcttctgcag cctcctcacc tgactcctcc   480
tcctcctcta gtaagcagct tcttgtcaca gacttctgga tagcttcccg ctctccttca   540
tcagtgcagt tctgcaacaa gatcaacagc tgtctcctgt tgtactgaat taggaacttc   600
tgacatgttc ttattgtacc tggcatatga gttactgtgg tcaacagctt gtgaaaggtc   660
tcgaccttac agactttcag aggtaggggg aaggtcttgt tagcgggaca gcagcaagac   720
ccacccacca gtttagactg aactgtgaac gtgtcaccaa ttgaaaatca gtagccatac   780
cacctcactc ctacctccca catgtaatgt gttgaaaaag catgggtaac ggtgtccttt   840
gttctccaag tatgtgatga agggaagagc tgaccacaca agctgataga attcttttct   900
gcatcgaagt agcactattc cagtataggc attgagatat cgaaccgcga agccgatgga   960
gcaggcggct gcgccgaaag ttccgtgcac cctggcgatc gtgtcccgta cgaggctgct   1020
cagaactcgg tcatcgaggc ttaggcggca gcggggggtcg tcagacacca gttcgcagag   1080
caggtacctg tgcttgaacc gcaccatggc tgcctccgcg ctctccagtc cgctcgtgcc   1140

<210> 5877
<211> 2474
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2475)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (405)...(2378)
<223> similar to gi5305335 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5877
tttttttttt ttgcgaatct gttgatttat ttacggctcg gtgagacgac gctggacgct   60
ggttagggta agggttaggg caagcattag cagcaggggc atggccctgg gaagcacctg   120
gaccccagaa cataagacag gagggagaga tgccatccat tcagcgggca cttatgccca   180
cgaccagctg agccagacca gcattcccat ttcaccaccc cttactcctc aagatgcaaa   240
tgaagctcag ggctgggcgg aagctggcag ggctgtccac agggaggacc cccgtgtgtc   300

```
tctcgggctg cccaggtggc tctgtccacc cttctgtctg ggaggctcct taaggctggg    360
gagggcccag agggaaggag atcctgaggg gctggcagat tcaggccctc cctgcgagct    420
gaggtttgaa gaggagagca gaccacccag agtagtggga gaaagcaccg gcagaaaagc    480
tggcatatcc accgagggcc tctctgcttc ttttgacctt tttcagagtt tcagagttat    540
gaaccaaatc gccttcatga gagatgacga atcagatgct acatagtggg ggaggcggca    600
gctggcctgg ctcccccact tccccaggac ctccgcctgg aggaagcctg cccagggccg    660
cagccctgcc cccaaagacc ccaggacaga ccagagctcc tgctggagcc gggtgtcccc    720
atgctgacct ggccatgtcc ccaggtccca ccccagggtc acttcctgta gctccgactt    780
ctctagtggc tgattgcagt tcccagaatg tataacatcc caggtgcca gagcccaccc     840
aagcagccac tcctgtccag ttcccagaat gtataacatc ccagggtgcc agagcccgcc    900
caagcagcca ctcctgtcca gttcccagaa tgtataacat cctagggtga cagagcccgc    960
ccaagcagcc actcctgagt cactcgggca tgtccaggac tcaggtccac acagacagtg   1020
gcaacagcta gccctgggca tctacccca tgaaggggac cctcggttct gcgagagaga    1080
tccccgaagt gggaactggg cccccatggt gcccagtgcc tctcccctc tcctctgcca    1140
ctctgccctg cacccagagg cagcgctgga ggccttactc taccactcag ggcttctcaa   1200
acctctggtt ccacttttct ccttttaagc tttccatttt gtaaactcac ctccccttc    1260
ccaggcttgg gggtccaagg aaccccagct ggtgggagaa gcgtctgcac tgtggtgcag   1320
ggggtggtga gtgagcgagg aggcactagt gtggggcagc tacttcacct ccctgtgcct   1380
ctgtgtcctc ctctgtcaaa ggggcaagat aatggctccc attgccgggc tgctatacag   1440
tgctcagggc cacagtgcag tggggggacc cacgtccatc gccaccttga tgcatacaac   1500
ccggacaagt ttactgctgt gatttctgcc ggcgctgctg tgccggttcc ctggtgctgc   1560
acagccacgc actccccatg agtgggcctg cccagcatta gctgagtgcc ttctgtgtgc   1620
tctacgccag gtgccaaggg caggccagcc aggcagaacc atgtgtgggg ctgggacagg   1680
tcagggtggt ggaaaggtgg acagaaggag gcaggaggca ggtgtgagaa gctgcccacc   1740
ccacccctca acaccacagc acttccagct ccagcaggtc cttgttctca gctgcccctg   1800
agccatgggt ggccaggtct cctccccatc accccactga gactcgagac agggaggacc   1860
tgatcctgga gtccctccca gccctggctg aggaagccac ccaacccgac aatgggcttg   1920
cgcaagccgc gcagtgactg ctcccagcct ctcccaagga cttaggagcc caaagccgcc   1980
tccctcccgg tgagcatccc aaggcatcgc tggctgcagc tgagagggcc tcatttgggc   2040
actgcncctg aggctggcac ttgcaggtgg gggcccttgg gagctctggg aggcacctgg   2100
cagcctccca gacaccccgg gccggtcctg ctctccaggc ttagggctac agccacaacc   2160
actggggggta ggggcgaggg gagtccaggc ccaccctgtg ctggcagcaa ctccttccca   2220
gctctgggcc cagtatgatg cccatcttcc ctctggggag tcacgttcct cccgctccgg   2280
gcccgttccc acccaaggtc cctttgcaga agactggcac tgtcctcctc cagcgggaac   2340
tgggtgtgcc ctcagcaaga ctctgcccccc tcccatcctc atgttctcag gagactgaag   2400
ctgggcactc agaaccagcc ccaggagcag aacgcaggcc tgcatataga ctcactgcaa   2460
ggcggacgcg tggg                                                     2474
```

<210> 5878
<211> 1938
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (48)...(1654)
<223> similar to gi1388193 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5878

```
ctattctgtc aaagagacgg tgccaaaagg caaaaacaaa ggagctgatg gcaaagaagg      60
tagctgtgat tggagctggg gtcagtggcc taatttctct gaagtgctgt gtggatgagg     120
gacttgagcc cacttgcttt gagagaactg aagatattgg aggagtgtgg aggttcaaag     180
agaatgtgga agatggccga gcaagtatct atcaatctgt cgttaccaac accagcaaag     240
aaatgtcctg tttcagtgac tttccaatgc ctgaagattt tccaaacttc ctgcataatt     300
ctaaacttct ggaatatttc aggatttttg ctaaaaaatt tgatctgcta aaatatattc     360
agttccagac aactgtcctt agtgtgagaa aatgtccaga tttctcatcc tctggccaat     420
ggaaggttgt cactcagagc aacggcaagg agcagagtgc tgtctttgac gcagttatgg     480
tttgcagtgg ccaccacatt ctacctcata tcccactgaa gtcatttcca ggtatggaga     540
ggttcaaagg ccaatatttc catagccgcc aatacaagca tccagatgga tttgagggaa     600
aacgcatcct ggtgattgga atgggaaact gggctcaga tattgctgtt gagctgagta     660
agaatgctgc tcaggttttt atcagcacca ggcatggcac ctgggtcatg agccgtatct     720
ctgaagatgg ctatccttgg gactcagtgt tccacacccg gtttcgttct atgctccgca     780
atgtactgcc acgaacagct gtaaaatgga tgatagaaca acagatgaat cggtggttca     840
accatgaaaa ttatggcctt gagcctcaaa acaaatacat tatgaaggaa cctgtactaa     900
atgatgatgt cccaagtcgt ctactctgtg gagccatcaa ggtgaaatct acagtgaaag     960
agctcacaga aacttctgcc atctttgagg atggaacagt ggaggagaac attgatgtca    1020
tcattttttgc aacaggatat agtttctctt ttcccttcct tgaagattca ctcgttaaag    1080
tagagaataa tatggtctca ctgtataaat acatattccc cgctcacctg acaagtcaa    1140
ccctcgcgtg cattggtctc atccagcccc taggttccat tttcccaact gctgaacttc    1200
aagctcgttg ggtgacaaga gttttcaaag gcttgtgtag cctgccctca gagagaacta    1260
tgatgatgga cattatcaaa aggaatgaaa aaagaattga cctgtttgga gaaagccaga    1320
gccagacgtt gcagaccaat tatgttgact acttggacga gctcgcctta gagataggtg    1380
cgaagccaga tttctgctct ctcttgttca aagatcctaa actggctgtg agactctatt    1440
tcggaccctg caactcctat taatatcgcc tggttgggcc tgggcaatgg gaaggagcca    1500
gaaatgccat cttcacccag aaacaaagaa tactgaagcc actcaagact cgggccctga    1560
aggattcatc taatttctca gtttctttc tgttgaaaat cctgggcctt cttgctgttg    1620
ttgtggcctt tttttttgcca acttcaatgg tcctagtcag cataatgctt tgggctttat    1680
tatcttgtca gtcactacct cctaaagaaa aaaaaaagg ctaaaaaaaa aaacattaca    1740
ttcatgttct aattataaat tttaaagtta ggtactacag gcaggggga aattgtaaag    1800
aattaccaaa attaggctta tgtacaaaac caaaatttgg ccatgaaatt ttgcctttcc    1860
atgcttccct cagttcacca aagttaccaa aatgtaaaat aaaataaaac tggctcaggt    1920
aagtagggct gccaaccc                                               1938
```


      <210> 5879
      <211> 2789
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (438)...(1674)
      <223> similar to gi36603 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters

      <400> 5879
```
cccacgcgtc cggcgatgcc taagcggttc accttttagc caaggtcctc cagcgttcct      60
agagcggaga agaaagcgct ccgaagagct agagctgaca ctcggcgatg agctaagacg     120
ctgtttcaga gcgtttgggt cctctgaggc cccttgacca ggagtgtctc tgaagataca     180
gtccaaagaa agttctccaa aacaaggaga gcagtctgaa gctggggatg gcaacagcat     240
```

```
tggtgagtgc ccattccctg gctcccctga atctgaagaa ggaggggctt cgggtagtga      300
gggaggatca ctactctact tgggaacagg gattcaagct gcaaggaaac agtaaaggcc      360
ttggacagga gccattgtgc aaacaattca ggcagttgcg ttatgaagag accacaggac      420
ctcgagaagc actaagtcgg ctccgggagc tctgtcaaca gtggctacag cccgagaccc      480
ataccaagga gcacatcctg gagctgctgg tgctggagca gtttctgatc atcctgccta      540
aggagctcca ggcccgggtg caggagcatc acccagagag cagggaggac gtggttgttg      600
ttctggagga tttgcagctg gatcttggag aaacaggaca acaggtggac ccagaccagc      660
caaagaaaca aaaaatactt gtggaggaga tggcccctct gaaaggagta caggaacagc      720
aggttcggca tgagtgtgaa gttacaaagc ctgagaaaga gaagggtgag gagacaagga      780
ttgagaatgg gaagcttatt gtagtaacag actcttgtgg aagagtagag tcatctggga      840
aaatatctga acccatggag gctcataatg agggctctaa cttggaaagg catcaggcca      900
agcccaaaga gaagattgag tataaatgct cagaacgtga gcagagattc atccagcact      960
tggacctgat tgaacatgcg agtacacaca cgggaaagaa actctgcgag tctgatgtgt     1020
gtcagagttc cagtcttaca ggacataaga aagtcctctc ttaggagaga aaggtcatcc     1080
agtgttcatg gagttttggg gaaagccttt cagaggagtt cacacctcgt cagacatcag     1140
aaaatccatc ttggtgagaa gccttatcag tgcaatgagt gtggcaaagt ctttagccag     1200
aatgcaggcc ttttggaaca tctcagaatt catactggag agaaacctta tctatgtatc     1260
cattgtggaa aaaattttag gcgcagctct caccttaatc gacatcagag aattcacagt     1320
caggaggagc cctgtgagtg caaggagtgt ggaaaaacct ttagtcaggc cttactcctc     1380
acccaccatc agagaatcca tagtcactcc aaaagccatc aatgtaacga gtgtggaaaa     1440
gctttcagtt tgacctcaga ccttattcga caccacagaa ttcatactgg agaaaaacct     1500
ttcaagtgta acatatgcca gaaagccttc cgactaaact cacaccttgc tcagcatgta     1560
agaatccaca atgaagaaaa accctatcag tgtagtgaat gtggagaagc cttcaggcaa     1620
aggtcaggtc tttttcaaca tcagagatat caccacaaag acaaactggc ttgatgaggt     1680
gttctctcct tgtagaacat cagagaaggc acattgacta gcaaacagca ctttaggaaa     1740
agtcaccgta gcccactgtg gcatcagaaa attcttgggg gctgagttgg aggctccctg     1800
cctctattct ctctcctttg ctttccttga agtcagcttt ggaccacaat aatttcactg     1860
tagatgatat gctaggatca aagttaaaca gcattcttca ctgcaggaca tctcagagca     1920
tgtaacataa ctgcatgatt atatactcta agcaatagag agcttcatga ctgagtaaga     1980
gttttgaagt cagcagtgaa tcaagtgccc acagatttgc aggcttaagc agaacaaggg     2040
aagattgata tttttggata tgctatagca gctttctcct atgaaataaa actgatgatg     2100
tttggaagta tactactctc aaaggtgtct ttaaagtaca ggttaatggt gaacattttc     2160
ccccagtggc ttcacctcat tcctcccact ggccttaccc cttccttccc cagtggaagc     2220
attttcaaaa gcaaagataa ttttcgctgg tgaacttcag aacttgcctt cagggttagc     2280
ttcatgtaat tttaccattt cccatcccca ttccccacca cattatgtca agattcaagt     2340
tataaattaa cgttttactt agactttgaa agagatttca tgagtaattt gaatgaacct     2400
tgctgaatta atctgaatag caactgtctg acttgataac tccagtgcca gtatagtggc     2460
tgctgcatag acactattca gtaaatgtct gatgaaagaa attggacttt ttccctttaa     2520
tactgatgat gcaattttga aatgttgctt gttctggaat acttcggaag ttaaacaata     2580
aagtcagctt ggagaggaga tcatgatctt tatactgtga atagcagaat gtcacagatg     2640
aagaatatta aaattagggg cgtccactcc aaaacatatc accagagtga caacttcagc     2700
cctcagcctc tgcaatccat atatatcctg gtcttgggag tccatagaat actgtttcct     2760
tctaataaag gtttcaaaca aaaaaaaaa                                       2789
```

<210> 5880
<211> 2966
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2836)...(86)
<223> similar to gi1702932 in the genepept database release 114,

4420

Run with FASTXY 3.3t00, default parameters

<400> 5880
tttttttttt ttatatagag attgtacatt tatttattac tgtccctatc tattaaagtg   60
actttctatg agccaaggtc ttttactttt tcttcttgcc tttaggggct tcaggggtt   120
tcccctcagc tacagccaac tgtttctta gatccaagag tttcgccacc tccgcagcaa   180
cctcgttctt gtctgccttt tgtgctttca gttctcggac aatgtttcct tgttttgtca   240
cttcatccat cagcgcttgt atctgctgtg gcttggctgt tgtaacagtc tctacaactg   300
ctggcttcgg ggacgttttt gcctggcccc ctccaaagcg ctgccttaaa ctttcaatct   360
ggtcattttc caattttgg aacaagggac tgactgtgcc aatctggtgt cctgctggta   420
aggtacacag gaagtttgtc agcaggatac tgcaggctgg aggtgggagc tgcagctggg   480
cctggattgt ggcactaacc gtgggcatgt aaggctgaag catgacagag agcaaggcag   540
ctatattcac tgccaagcca gtcactgttc ctgcccgttg cctgtcagcc tcactgcctt   600
taatccgctt cccagggctc attcacctgg aatatattgg ttgccatgtc ggagatatgg   660
tgaggatact gcgcaaggca tcccggatcc gaaccttctc aagtagcttg gtgatagtgc   720
tggagctcca gggtgacatt gggccagcag gcgctgatca tcagggtgtga gcaccatctc   780
aggcacatag cccccaaag aacttagaca caaacatccc aagctctgtt gatgaagttg   840
cccaggttgt taagcagctc aagaattatt cttcagcagc aggtccgtcc aggagaaagc   900
actgtcgctt gccctcaggc cgaatgtaca gcaagataga agcgcgagat gtcaggaggg   960
atccccgtgt cgtgggccca tgtcccgaaa cactcccaca ccgcggctct tagagaattt   1020
tcccatcctc atagttcagg tactctgtag caatgaggtg gctgacacaa ggtatagtta   1080
tcctcagctc ctagggctga gctaggaaag actaagctat ggaaaggaac attgtctttg   1140
gcccatgaac tgatacaggt cgacttgctc tgggttcgtt ccaccatctc tcccactggt   1200
ctgtgtagtt ggctgtgatg gacagatagc caatagtggc atcaaaccag acatagaata   1260
cccttgtctt caaaaccttc ttaaggggta ccagggttcc cccaatttga ggtctcgggt   1320
ttattgccag cgtggctttg agggccattc ccggaagcca aagaacgggg tgataaactg   1380
ggcattgggt gtccagtcac tgccaggcaa tgtcctcccc aaccactcct ccagtcgctt   1440
ctccagctta ggcaggtcca gaaacaggtg ctggctcgac tgcaccacag ggcatgatcg   1500
gcagacttta cactgaggct tcttaagctc gacagcattg atgagcttgc cacacttgtc   1560
acactggtca ccccgagcct cctcatagcc acagaaggga cacacgccct ccacgaagcg   1620
gtcagccagg aaagcgagca cagtgctcac atcgcagttg ctccacagta tcttgcagca   1680
caaaacctcg tttcagcaac tgctggaaaa tgtcctgggg tgattttggt cttgctgtgg   1740
agtggtggtg cgaccaaaaa tatcaaacga aatgttaaac cagcgggtag atgtcagcat   1800
ggatgatgtg gtacttgtcg cagatctcct gggggggttag tccctcctcc cagagccttg   1860
gtctctgttg ctgtaccata ctcatctgtc ccacacagat agagggtgtt ccactggcgg   1920
aggcgagagt acctggcaaa gacatcggca ctgagcacac aaccaatgat gttcccaagg   1980
tgggggacat tgttgacgta agggagggca ctggtgatga gcacattcct ttctccagcc   2040
acaggcaaca ctggattctg ctggggccgc agcggggca aactttctag gcccttctcc   2100
caagcagtaa cagccatagc aatctcctcc tcagataggg tagccagctc ctcctcctca   2160
ggctcaattg gtgacagccc tttcccttca gcgggctgg gctgggggctg cttttggagg   2220
taaggcccgg agagccagga caccttgctt gtttcagtac aagtcttctt gcagcttcgc   2280
tgacatggtt ccttgggtac tcagtgtctg gaaccagctg tgcaggcac tcagctcctc   2340
agggaggtag gcgggatctt gcagtaatgg gtatagggct ccccacaaaa caatgtcggc   2400
tagagattct gtctccccag ccaggaaagg acagtttctg acgactcaag ctgtggtcaa   2460
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acttaaatag tacagggcag cagacaaagt tggctgcagc tctgtcgctt cccattccag   2580
ccactggtta gtgaggtcat cttgctccca gccagataac aaaaaaaaaa tatcggcaga   2640
ttgcactagt ggagaagagg tagttgccgc tatccagctg caagacaggg accttaggcc   2700
gggtcaggaa cgggaccaca caatcttccg ggcctacagt gctgatgagc acctctgctc   2760
tgccccgggc tctcccggcg gcggccagca ccggcaagca acccggaacg ccatcactca   2820
cgaacagtct catttcgccg tgaatccctc gctgatttat aaagtgcctg cttttcctgt   2880
gggaattcca gaatagatat aatggtggtg gccaggggct ggatggaggg ggatagaaag   2940
ggatagctcc aaggaggctg gggtgg   2966

<210> 5881
<211> 842
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (26)...(569)
<223> similar to gi32472 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5881
aggggctggg ccctgggaga gaggaggctg tagctggggg ctccagcccg cagggcccag   60
cctgggtgtg tcctgcagct cctgctgagg ctgggcccag gcctcccagc cacgtgtgcc   120
cagctgtttg taggtccttt gaagggctgt gtgccaggtg tttgtgcgcc cccgtgtggg   180
gccgatgaca gctgtgcacc tggtgtcttc gtgtgcctgg ctgccagcgc gtgtgccctg   240
tgcgctgtgt gtcccgcagg gtccgtgtct gtgggggggt ccatgtgtac aaggggtgtg   300
tctccaggcc tgtgctctca cgtgtgcggc cagcccccg cgtgcatgcg gggcagcatt   360
tatttgcact tggtgcacat agtagcctgt gaggtagccc aggatgaaga tgatccagaa   420
gagggccacg ccgcccagca ccttcatggc gatgcccagc ttgcccgtgc acagcctctg   480
ggagatcctg cggcagcgtg aggcctcttc tgtgctggac acagccccta ggctgactcc   540
gtccctgctg ccgtcctccc acctactata gtggacgtgg ctctcctggg gctgcatgct   600
gtggggctgc agcgggaggg gcggggcctt ctcggtgggg agatcaagac aggtggccag   660
gctgtggctt caccggagaa ccttgcctga gggctggggc ctctgggcca ggttgcggtc   720
agggcctggc cagcggcccg cacctcccag cggggcaggt cgtgggctga ggtgcggcag   780
acgcctcgag cctgtgtccc cgcgtctctg ggctccgcag gggccgaatt ccaccacact   840
gc   842

<210> 5882
<211> 808
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (596)...(737)
<223> similar to gi433816 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5882
gggaggtgct cagtcaagcc tctgagagga gtggggggcg gggcgaggag tctcttgctc   60
agagcccctt agggactggg acccgttgac tctgagctgc ttttgaggct ggatcaggta   120
ccagcggcct gggggtcgta caggatggga gaggccgggg cttgggatgt tgccagatct   180

```
acgttgaaaa gtgaagcagg aagagaggca ctgaggctgg gcacatgggg aaaaccgtgg      240
agagccggcc tttgggggact agaagagtgg gaacaatggt tgacaaatgg tgagtgtggg      300
gtagaacagc agtaacacaa taccaggatc cacagagtgg ccagggccag agtggggaga      360
aggaacagga ctctgcagat ggggagggta aggggctggg tggcgtgaag ggtggttgca      420
gaattcgggg agggcagcta gcctgtgacc caggttccaa gggcactgag gtctgggcca      480
ggccgcttgg aggcaccaga gcctcagagg aggggtgggg tagaggaacg gatccagcat      540
ggtgtccccc ttggccacca gagggagttt tctaaatttg agcatggctc atcgctgctt      600
gaaattctac gtcacagtgt ggcctgcatt gaggagggcc cacacctgtc gctacctcag      660
actcacctgc cacctgcctc aagtgcatga gagagaacag gaaaccagaa attgtcagga      720
tcgaggatta tgggaaaaga gtaaaagcct agctgtcaga tctgaggttc caccaaggag      780
cactgatggg tgcttctcat taggaagg                                         808
```

<210> 5883
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (86)...(507)
<223> similar to gi200543 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5883
```
agcgtggtgg aattcccgcg ggtaaggccc tccctagacc ctttatacct actttacctt       60
tcggaggtca agacacctcc tgttgccgcc tcctcgccca acacacaggc gcccccccgca      120
cgggtaccaa gcttgactaa cggcctctag gggtgtgtgg tgggacttga aatcctccct      180
taatgaagtc acaccttctc cgtccgcttc cacccggtcg gcccatggca gagcccccat      240
gtagcccagg aatcggcttg gcccttcggg gaggtcagcg tccttactat ccccactctc      300
cagtgcggca cattcgttcc cctaggactc cggccggttg ccggccccag gcggtgcttc      360
tccccaccac cgcccagctc agctcagccc agcccagccc actctgccct tagaggccct      420
tctccccaaa gacgcactcc agaagtctcg ccctcgtgcg gctgaggagc ctgggatccc      480
agacctgaac aaggtgagca tccctatatt ttagcccaga aagatctgtg tggctcactt      540
gccggcctcg ttctgtcaca cagagtccag atttagcctt gagttttcct agtgaaagac      600
agacctggt atcactatga ccctcctcag gctttcttac cccgcctcag aaagcagtga      660
ggtgtctgct ttctcccagg gcttctttag ataggggtct taac                      704
```

<210> 5884
<211> 898
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (616)...(226)
<223> similar to gi159167 in the genepept database release 114,

<400> 5884

```
agtcgggcag cctcccagat ctctgacaac tttacaagct gcaggggaga ccagcgataa    60
ccctgaaacc ttcccatgta accccccaggg cgctggccag accaagagca gctgccacat   120
caggctggtg ccagcagtcc ctgcctgcca cactgccccc ccaccaggcc actgaatgag   180
gcagctggga gaggcaggaa gaggggcttc aggctgaatt cttgatttga cccttcttgg   240
ccctttttgct tgggagacct ggaactgaag ggcatggaac ccccccttgga ccctgtgggc   300
aggaaaactg ctccccttgt ccctgcctgg gggtaggaca gataaggctg ctcgtcctgc   360
ggcggccccc cagcccacct gcttcctatc cgtttcctgc aggatggtgc cccctgcatc   420
ccctcaccca ttgctcacgg aaggaaaagc agacgtggcc agcctgcatc ctctgccctc   480
cctgagcctc ctggcctggc tggccacagc tggcatggac gccatcagca ggctccgtgc   540
aggcggacgg ggcagccccc acagccaggg caccctggcc ctcactcacc agcacccttt   600
tgttcttttc ctagcaaaat atgcaaagtg tgaccagtgt ggaaacccaa aggtgagtgg   660
gttccggctg caagccacca aggcttcagc tttggggggtg ggcagggtgg tctctgcact   720
gcttggggtg gcaggtctgg tgcccgccca gctgggtttg caacgtggct caaggtggca   780
tggatgcctc aggacggccc cttgcttcca gccaagcccc tgcccaggcc tggaggggaa   840
gagagtctgg gtgggttggg gtgagggaga ggcatctggc ttgagagcag ttcccagg    898
```

<210> 5885
<211> 1273
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (395)...(1076)
<223> similar to gi163132 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5885

```
taaggaggag agaccaaaag ggaggcctga actctcaaac tccgaatctg attttcactc    60
tcccaggaag gcttcggaaa tcactgtgga ttgtcaatac aggagtccat actgactgaa   120
tccctaattt tggcctgtat tcttctccct ctgtgaacca tcttcttaga agtcactgaa   180
ccaagagtgc cagaaaacca tcccaagact cacacagagt tgttcttcca tagtggatgt   240
tttggccact ggacatcaga accacatttt gggtttgaag aatcttctac atgctgagaa   300
agtggaactc cagagacact cctgaaattg tcctaagtca aaggagccaa acggtgtacg   360
agctccctct ctgccgtccc ctctgagagc agccatggcc ctgagtgatg tcgatgtgaa   420
aaagcagatt aagcacatga tggctttcat tgagcaggaa gccaatgaga aagcagagga   480
aatcgatgcc aaggctgagg aagagtttaa cattgagaaa ggacgcctcg tgcaaaccca   540
acgactgaag attatggagt attatgagaa aaaggagaag cagatagagc agcagaagaa   600
aatcctgatg tccaccatga ggaatcaggc gaggctgaaa gtcctgagag cccgaaatga   660
cctcatctca gatttgctca gtgaggcgaa gctgagactc agcaggattg tggaggaccc   720
agaggtctac caggggctgc tggataaact ggtgctccag ggtctgctcc gactgctgga   780
acctgtgatg attgtacgct gccggcccac aagacctcct cctggtggag ctgctgtac   840
aaaaagccat ccccgagtac atgacaattt cccagaaaca tgtggaggtc ccagattgat   900
aaagaggcat aactggctgt ggaatgcagc tgggaggtgt gggaggtcta cagtggcaat   960
```

```
cagagaataa aggtttcaaa taccttggaa agccgactgg atctctcagc caagcaaaag    1020
atgccagaaa tacgaatggc cttgtttggt gctaacacca acagaaagtt ctttatataa    1080
gcctctggga agtgaagcta gtgttgaacc actaaaccat aaaagtttaa gttttttggg    1140
gaaaggaaac tagtagtgtt tcctcctctt tgatgctctg atactgttct gtttttcttc    1200
acgaaatacc ctttggatag ctaaagtgtt aactttgaaa taaagcccga aattaatgct    1260
cagaaaaaaa aaa                                                        1273
```

<210> 5886
<211> 2966
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2967)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (23)...(2020)
<223> similar to gi1781037 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5886
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gaaaagagga cttattgttg tcatggccca tgagatgatt ggaactcaaa ttgttactga     60
gaggggggtg gctctgctgg aaagtggaac ggaaaaagtg ctgctaattg atagccggcc    120
atttgtggaa tacaatacat cccacatttt ggaagccatt aatatcaact gctccaagct    180
tatgaagcga aggttgcaac aggacaaagt gttaattaca gagctcatcc agcattcagc    240
gaaacataag gttgacattg attgcagtca gaaggttgta gtttacgatc aaagctccca    300
agatgttgcc tctctctctt cagactgttt tctcactgta cttctgggta aactggagaa    360
gagcttcaac tctgttcacc tgcttgcagg tgggtttgct gagttctctc gttgtttccc    420
tggcctctgt gaaggaaaat ccactctagt ccctacctgc atttctcagc cttgcttacc    480
tgttgccaac attgggccaa cccgaattct tcccaatctt tatcttggct gccagcgaga    540
tgtcctcaac aaggagctga tgcagcagaa tgggattggt tatgtgttaa atgccagcaa    600
tacctgtcca aagcctgact ttatccccga gtctcatttc ctgcgtgtgc ctgtgaatga    660
cagcttttgt gagaaaattt tgccgtggtt ggacaaatca gtagatttca ttgagaaagc    720
aaaagcctcc aatggatgtg ttctagtgca ctgtttagct gggatctccc gctccgccac    780
catcgctatc gcctacatca tgaagaggat ggacatgtct ttagatgaag cttacagatt    840
tgtgaaagaa aaaagaccta ctatatctcc aaacttcaat tttctgggcc aactcctgga    900
ctatgagaag aagattaaga accagactgg agcatcaggg ccaaagagca aactcaagct    960
gctgcacctg gagaagccaa atgaacctgt ccctgctgtc tcagagggtg gacagaaaag   1020
cgagacgccc ctcagtccac cctgtgccga ctctgctacc tcagaggcag caggacaaag   1080
gcccgtgcat cccgccagcg tgcccagcgt gcccagcgtg cagccgtcgc tgttagagga   1140
cagcccgctg gtacaggcgc tcagtgggct gcacctgtcc gcagacaggc tggaagacag   1200
caataagctc aagcgttcct tctctctgga tatcaaatca gtttcatatt cagccagcat   1260
ggcagcatcc ttacatggct tctcctcatc agaagatgct ttggaatact acaaaccttc   1320
cactactctg gatgggacca acaagctatg ccagttctcc cctgttcagg aactatcgga   1380
gcagactccc gaaaccagtc ctgataagga ggaagccagc atccccaaga agctgcagac   1440
cgccaggcct tcagacagcc agagcaagcg attgcattcg gtcagaacca gcagcagtgg   1500
caccgcccag aggtcccttt tatctccact gcatcgaagt gggagcgtgg aggacaatta   1560
```

```
ccacaccagc ttccttttcg gcctttccac cagccagcag cacctcacga agtctgctgg    1620
cctgggcctt aagggctggc actcggatat cttggccccc cagacctcta ccccttccct    1680
gaccagcagc tggtattttg ccacagagtc ctcacacttc tactctgcct cagccatcta    1740
cggaggcagt gccagttact ctgcctacag ctgcagccag ctgcccactt gcggagacca    1800
agtctattct gtgcgcaggc ggcagaagcc aagtgacaga gctgactcgc ggcggagctg    1860
gcatgaagag agcccctttg aaaagcagtt taaacgcaga agctgccaaa tggaatttgg    1920
agagagcatc atgtcagaga acaggtcacg ggaagagctg gggaaagtgg gcagtcagtc    1980
tagcttttcg ggcagcatgg aaatcattga ggtctcctga gaagaaagac acttgtgact    2040
tctatagaca attttttttt cttgttcaca aaaaaattcc ctgtaaatct gaaatatata    2100
tatgtacata catatatatt tttggaaaat ggagctatgg tgtaaaagca acaggtggat    2160
caacccagtt gttactctct taacatctgc atttgagaga tcagctaata cttctctcaa    2220
caaaaatgga agggcagatg ctagaatccc ccctagacgg aggaaaacca ttttattcag    2280
tgaattacac atcctcttgt tcttaaaaaa gcaagtgtct ttggtgttgg aggacaaat    2340
cccctaccat tttcacgttg tgctactaag agatctcaaa tattagtctt tgtccggacc    2400
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tgttagggac agagcctagt ggtaaatcca agagaaatga tcctatccaa agctgattca    2520
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aggggccttg ccaaggtcta ccttagagca aacccagtac ctcagacagg aaagtcgggg    2640
ctttgaccac taccatatct ggtagcccat tttctaggca ttgtgaatag gtaggtagct    2700
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gagataattt tttttcttc tcagctttat gaagagaagg gaaactgtct aggattcagc    2820
tgaaccacca ggaacctggc aacatcacga tttaagctaa ggttgggagg ctaacgagtc    2880
tacctccctc tttgtaaatc aaagaattgt ttnaaatggg attgtcaatc ctttaaataa    2940
agatgaactt ggtttcaaaa aaaaaa                                        2966
```

<210> 5887
<211> 2408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2409)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2240)...(835)
<223> similar to gi1850772 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5887
```
tttttttttt ttcatttagc aaagttttta ttcaaaagct tctcagcacc atctagttat     60
cagaaagaat ggatatcacc tttttcctgcc cacccaatcc ccagttccac aggcagaagt    120
taaacccatt tggctagagt tcccccctaat gattatgact gagaccatga taagattttg    180
gttgttctca cccaactgtc tctaagcctc tactcaaacc tgactcaagc agagatgtgc    240
acaccccaca gttcagaaca ggaaggaatc atgtcagatc tgatcaacct cccattcttg    300
ggctattaga ggcacaagaa attaccttga aaaaatggaa ttcagtgact gccatctagg    360
aaagacagtg atactgtcca gcagcatgca gttccgagag ctcaactctt aggccaccct    420
ccctccactc tactctagga acaaggagca ttaggtctgt tttctctcca tacacctcaa    480
```

```
tcgctcgtcc tctcgtctta ttaaaacaca gacacagaac caaacttttt gacagttaaa      540
gacaaacaat tacatctaat taaaatgcta agagatcctg agctgttaga gatgaggaga      600
gtagatagta tgacctgatc ttcccccctc ttttttttcc tttaacagta ttctgtttca      660
gcataaagca cactttctga agaggttcct ggtggagact ggaaaatctt ggacttgtgt      720
cctgtggcaa acaacacaag tccccttgca taactttggc ttcagtccct ggatctgtcc      780
tttgcaagct acgtcaggtt ccatggaagg aaggaaagag ctggagggca gtatcactca      840
gccaaagctc ccatggggtc ccatgctggc aggacaaatg ggttccctgc tcctaacaca      900
gctagcacct cttccaggga catgcttcct gtcccaccaa ccacttcgta gacatactca      960
agagacccaa ctcaatctgt catgcacagg taacctttgg tggccatggt cttcacccca     1020
ttgaaattct ccaactctcc cattttgtga aaagcaccat ccctgaatca tcccggctct     1080
gagcacagca gtgaaggtca tggtgtgggt cataacgtga ctcaccaaaa gtcacgcctc     1140
tccgctttat tcatgttctt caaggagaca ccaaacacta actcatggtc atagagattc     1200
atgtcactga gggcccagct tgctattgaa agtgttttcc aacatcacag ccaaaccaca     1260
cagccgtctc catctttgat ggaggcagca accatctttt tcaggaagtc aatgggctgg     1320
ttgttgtaaa agagtttttc tcccctccaa accatattgc cttaagtatt cccactgtgt     1380
aaagtttgtt gtacttgtgc tggggcctag ggtcattcac taaacaaatc ttatcttcca     1440
tattgaagag tggcttgaca tgttncccct gtaaaactcc aagggtgttc atggggccaa     1500
ttttctgata atttttatct ttgtctcgat attcccaggt gaatgtctct ggtggattac     1560
ctcttcagat gcgccaccat tcgcaagtat ctcctccatc atgacgtcct gtgtggccga     1620
gatttctcct ttcgttgctc cactgtgtac caggttccgc agtcgtatac agaattctct     1680
catcttgtga ttcagaatat cattcatcct tctggttgcc tctgttgtat aagattcagg     1740
gaagcatttc ttagggataa caccatattt ttcaacaata ttaacaagca tatcccattg     1800
gccaccatca tttgcagggt tcataagcaa aaactgcacc agcctcccat cctcaggctc     1860
ctttctctgg gctgtgtcca caaaagcact caagaagaaa taacagcgtt caaccttgtc     1920
ccaaaaaaac aggtaagatt ggctaaactc aaattcttca atatttaact ttttcatgaa     1980
tggaagcctc ataacattca gacaagaaaa gatccagcat cgccctgagc tcttctggtt     2040
ggtgattggc ttgccctcct ggggcacggc gtgctggaac acatgctgcg cgcgctgcac     2100
cgtggcccgc ttcagacaga tgtccagcag gtcgtgggtg gtcccgacat tctgggcaag     2160
tacgaactgg gggtcggaat tcagtttctg tatcagagca gctaccttct ccgaattcag     2220
tcccgagctg ctcatggcgc ccacgctgcc cggcggggta acggtagctt ccagggtcct     2280
tgggcgagcg ccgggattgc gctgcggctc gctgcctagg gggcccgacc tgtctctcgc     2340
acccggagcg ccggaaaaag gaaaccggct cggcggcggc ggcggcggcg gcggcgggga     2400
ggctgagg                                                   -            2408
```


<210> 5888
<211> 4369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4370)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3923)...(391)
<223> similar to gi532056 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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agcttcagta aaatagagaa ttgtctagaa aatacaatct ccaaaatgtg tgcaagtact     120
gcaaaccgga cagaccgggg cagggcaagg cccttgaaac caagtcctcc ttgagcacct     180
ttcccaggtt agaaacccct cttcagcctg tgcttcgcac gtttccttca gcgtgccgcc     240
cattcagact gcgccaactt acgtccccag tgcccacgcc tgngtggatc aagtgtccaa     300
cgggaaagta tgagttaggg caagcgcttt tttttttaagc tgtaaacgct tcacatgact     360
gggccccgta aggaaattgt ggggagctta ggatgagcct gggagctttt tcagggactt     420
ggatgaggac tctgtacaca aatgtgtact ggcagagagt ctgcaccagc atcattctct     480
gttgccctca gcatgtccag cactctcggg atgtccagca cctcattgtg ttccaggcag     540
gcgatcatga tctccgacaa aatcaccacg ccagtccttc ctaccccagc actgcagtgg     600
accaacaacg gagggttggg gctttgggga tcacttgtgc tatttgtatg gcgtcgaaca     660
gactggatct cttcaagata tgataaaaat cccttgaggt cttctggaca gccatgttca     720
ggccagtctg tgtattggag gtgccagacg gtcctctctt gcccggtaag gaggtgcttc     780
atcttcaggc ctgtggtggc atagcagcca gagtctgtgc ggaaccgggt cgtgatctta     840
aaccttccat aggtgacagt gttgtgcctg gaaccaagtc gtggccagta cctaaagctc     900
ttctcccttc caccctcctc ttctgctgtc accattgcta taattgcaat tccctgttcc     960
cataccatct gccaaaaatc ttgacaggta ttctgtaatg gtccctgtgt ggcaatataa    1020
tcccattcga ttccactgac agagacctta atatgtgatg cgttgatgta accagtgttg    1080
ttttctttag ttgggaccaa ctccactctc acatcatcat aaggaagaac atcttggaat    1140
cgatttcttt ctgcattttc agggagtcgt gctgttgagc actccccatc aactagccgt    1200
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attttacacc tttcatcatt cgttgctctg gtagccactt cctttccttc atcaggcaga    1320
ggcactcgag atagggagag tccatttagg gcagccagtt taagaggacc aatttttttt    1380
gcatctactc gagtcttttt cattccccct agaggcggga gcccttccac gatgttcttc    1440
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cggcctgacg tggtgaggtc ggactccgac atggagggca tcagcagccc gtctctccag    1560
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tctgggacgt gggccttggg ctccaggatg tgcaggggcc cggcgagcag gacgcgaggg    1680
cagccaggtg ggtcctgggc caggccgggc cgaggctcgc gcgcacgtgc aggggggcgcc    1740
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atggtggcgt ccgacaggga cttcttatgg ccgtacctca agccctccgc ctcctccggc    1860
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cggcggtgag gggctcgctg acctcctgca gcgagtgcgc cacgggcagg ctgtcctcct    2100
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tgtaaaggtg gcgggacagg tctggcgtgc tgttggcggg cctggggggc gggtagggtg    2220
ggggtggccg gtacacctgc gtccgcatga tgttgggaga cgggtagtcc tgcgcctgca    2280
gctgcgcatt ggtcagctcc ggcacgctga ccgcgcccac cacgggccgc cgctcggcag    2340
ggtaggggta gggagacggg ctgtggaagc tgtagctcag gctgaacggg cagtgtgcgg    2400
ccgctggcga ggggagctgt gcgtgctcgc ggatctcggg ctggctgtag accagcgccg    2460
cgggcctgct gtaggcgtac gagctgccga tgttgaggtt tcgcagcgag tggctctgcc    2520
gttccgcatg caccaggccc ctgttgagct gcttcatcac agtctcatag tctggggtgg    2580
ggcggtagga cgggggtatc acggcgctgt gccgatggga cgggaggtag tcaggcctca    2640
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gaggattatt taaggagttg gtgctgtgtg cactgtagac actggcattt acggatccga    2760
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ccatgtcttc agtttgaaat tgaatggtct cctctttatt tgccagctct aatgcaaaaa    3120
aggacttgtt gtgggacatg ttggcaatgt catgccacct aaataccaca ggatgccttc    3180
cattcttgtg tttcacaaag ataccttcaa gacacgctcc aatgatatg tcacttcctt    3240
ggctatcctt agcagggtag ctctcttctc catagccatc cattctctct acctcctgca    3300
tgtacagcat ttcagcatca ggagctgtga gccctctgta tttctgatgt agtaaggcca    3360
```

```
cttttttgggt tgcttcttcc aatactttt catcttgtaa ccatcccaca ggaaacaagg    3420
caaatttctg aagaaagtcc tgggattcat actgatcaaa gtcaccaaaa atcgcttgaa    3480
cagctaagcc tgctaggtga attggctgtt ccaaggtaca agggatacct tcttcccaga    3540
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ggatccgggc aaccaggcaa ctcttgctgg acaccgtgta gcgccgggtg cgtttcagtt    3900
tcaacccaaa tggcagtggc atcttcttct ttcttcaaga atggaggagc aaagagggaa    3960
aagctacccc caccaaccca gcgctggtga cgccaggaga aagcgatcct ctccggatgg    4020
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ttaagcggag ccgcggccca gaagggggag cgggcgaggt cttccacgcc atcctgagtt    4260
aatgagcggc cggaggcaac aaacccaaga agcccacggg gccttggagc actcaggccc    4320
cggcttctcc cgcgtcctcc ccttgggaag agcacgcggc gttacgaaa               4369
```

```
<400> 5889
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cagccaggca cccgggttcg gcttgctcag gtctctgtcc gggactggga agccacggag     180
ggccgggaaa gtggcacact cctggagctc aagcttccta ctctctcatc gctgaataac     240
taccgggcag gactgggtgg aacagacagc atatttaggt cattgatggg ctgctggtg      300
gatggagctg gaaagtgatg ggcactgctt tctggggctg cccaggttcc ttccgagggc     360
tcgctttttcc tgggcagagc gggaaagagg aggggcaggc cggtcgcgaa acgcaaatag     420
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gttaaaaatt cagattgaac tatcttacaa atggctccca gaagatccac tccctgtggg     540
aacacagcag ttgtggaagt gaagacagga ctggacccag aataagggtt caaatatgtg     600
gggaaatctg acctctaaat tcttataagt cagagagtga ctgaacaaca gcagtgagac     660
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gaatccaaaa agcacaatgg aatactataa taagctgaga cagcatggtg aattccagac     780
aagcctgagc attccctata gccagagaag gaggcccaac acctaacata gccttggatg     840
cagaactgat agaacttggg gaaagtgatg aagtagttga cctcacctgt gaatctctag     900
cacctgtagt gattgaccta actcaccgtg actctgtagt gattattgaa caaaggagga     960
ggccaagagc aaacacaagg ccactccaag accacactgg cagttgtgtg gtgaacaatg    1020
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ccctgcaaaa aaatttttt tgtcatatac tacctggtta tattcagtgt caagtttgca     1140
tggatggatg ctcagagatt gaacttagta tacaacacat ctactctata gaatgtggcc    1200
```

```
acatctgtag tcagtgcttc tgcacttcct ttacacatac taacactgcc cagtttgttt    1260
gaaaaaaatc agcctccatc agtatcactg cagttatata tgatgtatgc cttattgctc    1320
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atccaatgct ctgagcttaa aaatactgat ttttaaaatt gctatctgca gtatataaga    1440
aactctttga tttctcatat gctctgagac tgctttttgt ttcctttggt tttatgcttc    1500
agctctggac ttcagttgcc agagtgtgcc agatactggg gtcgtcctta aagcaacttt    1560
ccctttctta tagtcatcaa tttttagttg gccacatgta gacattctgg accacataaa    1620
taaagacaac accctagaga tggtgaagta agttgtaaac taaaatccta agccccctaa    1680
ttgactgaat ggaacccctc ttgaccaaag tgaccccaga aaaaccttaa aactgagttc    1740
ctggccatga cgggatggga ggtcagacac gcttcattat atctccgtct cttttatggt    1800
ttagacacag caactgacca gcattaatgt caaaataaag atcataaggc tgacagaata    1860
gaccctttgt ggcaataaca aattattcgt aagatctaag gtcatgccag gcaagtgtta    1920
tgtcatgcac tcctacactt taaaggaata aacctatgtt cctaactgcc acaaga        1976
```


```
<210> 5890
<211> 717
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (423)...(65)
<223> similar to gi19923 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters
```


```
<400> 5890
tttcgtcgcg agagcgcgcg gcgcggtgac tcgtcgctga gggactttaa gattgtagag     60
gggcgcggag ggtcctcccc ggggcggagg gacacagagg gattctaggg aacctgccgt    120
cgcgagtccc gcttcaggcg gagaatctag gcggcggcgg ggcctccctg aggcggagga    180
gtcggcaccg gggcctggct gccgggggaag gagagcacgg gagcgggggac tcctgtgtct   240
ggcggaggga cacggcgttc cggtggaggg atctgttcct tgtacctggt ccaggggttgc   300
ggtcggggat ggagcggtta ccccgaccct gcgggacctt cttcctctgg cggaggtgca   360
cggcgcggcg tggagttttt ctggcggaag tatctgtgcg tggccccagg cccttcccgg   420
cgcggtctca tctggggcca cttgttggcc ctcgcgttgg ggaggttcat gtggtgcatc   480
ctgatgagaa ggggggtcac aggggtctcg gggccaggt tcagccagcc aggccccagc    540
ttgctctctt ctggtgctgc ccctgtccct gaattcatag acccggcttt ccctctcnnn   600
nnnnnnnnnn nnnnnnnnnn ntgcgctttg cgcatgtagc agaggcaaca gtgtcacctg   660
ggaagctggt ttcccccaaa ggaactcttg tctgtccgtt gttgcagagc cagcgca       717
```


```
<210> 5891
<211> 699
```
```

                                  4430
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (313)...(51)
<223> similar to gi3883128 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 5891
```
tttcgtatca gttttctcct cctttcttcc cgcgatcgcg cggctctctg gaagccttcc   60
cactctatta ttgccgagga tcccccctcct agacactctg agaaggtgcc gctccggcct   120
tgggtacggc ggtacccgga tgtggagtcg ctctcgcccg gctgggactc tgtggcgggg   180
cggagcgcgg cggctggtgc gggggcagag agaagggggc cccgatgagt aactcccgga   240
ataaccgggt gatggtggaa ggggttggcg ctcgggtagt gcgcggcccg gactggaagt   300
gggggaagca ggacggcggc gagggccatg tgggcaccgt ccggagcttc gagagccccg   360
aggaggtggt ggtagtgtgg gacaacggca cagctgccaa ctaccgctgc tccggggctt   420
acgacctccg catcctggac agcgcgccca ccggtaagcc gcggccacct ggccagggct   480
tgcgcgcgcg gggggaaggg gcgagctgcg gtgggcgtcg gtgtcgcggg gagaggtctg   540
cagtgggaca cctggtgggc agcgcccggc tggagcgagc ggaaaggcaa agcgccaaag   600
gaattctagg ttccgaacgg gtgaacaaac actttcagaa aagaccctct acccccaagg   660
gaaatgatgg cagcaccatc accgggatgc tttcaagcc   699
```


<210> 5892
<211> 1967
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1858)...(782)
<223> similar to gi3875351 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 5892
```
ttttaaatca atagataaac atgatttatt actttgtcta ttaaagtagt ttcaacacaa   60
ttgaagttta gactgcactg ggctgttccc atcacagtcc aggattatgc acagaccagc   120
ccccaacccc agcagggggtg ccctgccaga acctgtgctg gatgcctagg agcacagaga   180
ccactgcccg ttgttgggct gcgtgtgcac aattcatacc ccgatccata atccctaaga   240
caagaatggc tgtcattgcc ctgggttcac tttctattca aagaggactc atttgggcac   300
agccaatgta gtagttaaaa tgcattttga gaaaaaataa atattctgta caatgtattt   360
acaaggatca aatgtttttgt aacccacccc caattagttt cccaattggg aaactataat   420
ttgataatta agaagccata ttattggccg ttagtgtcac gtcaacaaag aatgtggagc   480
tgaccaccta aagtattttt gaactatata tatagagaga gagagagtac gcaaaatttc   540
acattttaat atgcttagaa ggagtttta aagaagtaga aatgatttcc ttggcctctg   600
actttcagtg atgaaaatgc aaccatgcag tccccccttt gcagaagggc agttcttccc   660
aggctttctg gaagcagggg cttccgagga gtctccaccc acctcacaga acactcacta   720
```


                                   4431

```
tgagccctgc acagacagca ggattcacaa tctccaatag ggatggcagg ggcagccctt    780
aaaacttgaa gaggtcgatg aagtgctgcg gagacacagg cgtgaagcag ctgtcagggt    840
cggccgccgt gcaggggtgt cctgagtcct tccaaaagag aatgctgcag tgccgacaga    900
aatgcagtgt gtctccgtac tgctccttcg ctgggtaatg tttctgaagt gcaaagtaca    960
tcaacttcca ttcaatatga ccttttctg aaaggatcaa atgtctacaa aactgctttt   1020
cagcaaaatg gtactgacaa agcttcttcc acagctgtct gtcttcacta agcatataca   1080
acgtgggggt cacctggcct aaggtgatga tgtcccatcc gtctgagaac cggtatagga   1140
tgttgttcag catgtgcaga ggaaggtcac tgagggtgag gccattgttc acttgcttag   1200
tcatctgaag atcctgtagc tgttgttgcc aggcgagaat agtttctaat cggcaaatcc   1260
aaatattgat gtttcccact aatacagact tccctactcc tctaataaga atgcagaggg   1320
tagagcttag gtcttgcaga agatctttga ttaagcgagg attgtggtgg tcatcaagaa   1380
ccttttgaac gattttatcc aaaatgttga agtaattctt ctgtgccacg ccactcaatg   1440
aagttaactg ggattttgca attagctgca acagtttgac cacataattg aaccttcgga   1500
tatcttgaat tgcacttgag aagtctaacc gattaaaggc ttctcccaag gtgcaatagc   1560
catgcctttc ctttgtgctt tctttatgga catagatcca tttttcacga taaaaacttt   1620
gagtatttgt gtcatttcta aaatggtcct ttttcctttt tttcgatgca tattcatgct   1680
cttcattatt gaatatttct ccatcttcac tatttaagat aatgctgtga ctgatgttac   1740
aatggttatt ctctctttca agtttctgac tacaagattc acatctcttc cagccatctt   1800
ctgtcttaat ccaactccat ccaggagatc tccagtcctg acccaaaaat ggcatagttc   1860
tcctagcgcg cctgcggccc ccagtcttca cctgacgcgc ccgcgtcccc cagtgcccaa   1920
cgggcgcgcc ggccacctgg gcccgcacct gacggcgacc aggcggt             1967
```

```
        <400> 5893
aatacactgc tggggtggca atctgccaag ggcccgaggg caacactcct ttacataaag     60
tgaaaaagat ggcaaccaca cttctgctga atacagaggt ggagcatagg gtaatgcaag    120
tccaaacaag cttcttgctg ggctggctcc ccagtcttgc ttagagaatg tgagctgccc    180
ttctgtgctg cgttcagcct gaccacccct gctctgcact aataatgaat aagcttcgtc    240
cctatctttc cctagcctgg caggccattg taaaacttta tgcataagag tcacacttta    300
gattttgtac cctacacact tccactgaag cagaaataca aaagccacaa taatctcaat    360
agccagcagg cattcctctt tagggactgt aaggtggtgg cttttcaaaa ggtggatagt    420
agggtggaga gtaacggggc ggtgcacttg aggaccacat gtagctgggt gagggagagg    480
cagactgggg ctcatcagaa agtccagagg gaggggagga tggaaagaca ccggaatgct    540
gaaagtcata agcagaatat ggtggcaggt gaggagggct atggtagtag gtattgtagg    600
atgccacttg gggatgagca tagtaagaaa ctgttggatg ggtattttca acagaacagt    660
tcagtgctgg gagagttggg ttcatgtcct taaagcctcc aaggacagcg gcagtgatga    720
tgcccaggaa caggccaaca atgttgagga tggtggcaga ccagagcagg tggtagaggt    780
ggatgatatc ttggcaactg ctgacatcga tgtattcgta gtacccacca gtgatctcca    840
cccggttgcc acagttgtag aggtcacagc agaagcaggt gttgccccgg atgcgaggtg    900
tgcagaattc acggctgagg tgagggcagt taacctctct agctgcctgg gtaaggttcc    960
```

```
tcataaccct cgtggaagga gaatttttgg ttgaggaact tatgacctcc tcagcttcct    1020
tctgtgatgt cttgggaaca taatggcacc gggtagcgta gagtggtttc agatcaatgt    1080
gtctgg                                                                1086
```

<210> 5894
<211> 675
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (169)...(502)
<223> similar to gi168455 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5894
```
gacctacacc cgctcgcgct ccctccactc ccagaccccg gcctaacacc cgctcgcgct     60
gcctccactc ccagaccccg gcctaacacc cgctcgcgct ccctccactc ccagaccccg    120
tcctaacacc cgctcgcgct ccctccactc ccagaccccg tcctaacacc cgctcgcgct    180
ccctccactc ccagaccccg tcctaacacc cgctcgcact ccctccgctc ccaggcccgg    240
cctaacaccc gctcgcccca gaccccgtcc taacacccgc tcacactccc tccactccca    300
ggccccatgc atgccttggg agcccagccc ttctcgtggg gcagatctca gcactcacca    360
ggcgcctgcc tctcccacct agtgggccct ttcctgactg cactgcccaa caggagcctc    420
cagggccctc ccgctgcctt tgtggctgcc agagtcctcg tccccttgct ttgtctcctg    480
ctgtctccct ccactcccaa acctttacct atgggtgtga tttcatcccc aggagggaag    540
caccagggaa gcacatagcc caagtgtcat ggagcccagg cctcaggtcc cgtatggagc    600
ctgtgctcag gactgcagag gcagtgcgtg gccaccttgc cgtggagcag gcctgggctc    660
cccgggtgag gtcct                                                     675
```

<210> 5895
<211> 2000
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (358)...(1389)
<223> similar to gi3878668 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5895
```
cgggctgggg gaggggagcg tggggccgac agttttgggg gtgaaaaggc aaaaggcggg     60
tgaaaggctg cctcccgaga ctctccttgc ttggaattct gcccactctg cggagttagc    120
```

```
agtcacgacc tccagcacag gatgtggtac cacagattgt cccacctaca cagcaggctt      180
caggacttgc tgaagggagg agtcatatat ccggcccttc cacagcccaa cttcaaaagc      240
ttacttcctt tagctgtcca ttggcaccat acagcctcca agtctctgac ttgtgcttgg      300
cagcaacatg aagatcattt tgagctgaaa tatgctaata ccgtgatgcg ctttgattac      360
gtctggcttc gagaccactg ccgctcagca tcgtgctaca actctaagac tcaccagcgc      420
agcctggata ctgccagtgt ggatttatgt atcaagccaa agaccattcg tctggatgag      480
accacactct ttttcacttg gccagatggt catgtgacta aatatgattt gaattggctg      540
gtgaaaaaca gctatgaagg gcagaaacaa aaagtcatcc agcctagaat actatggaat      600
gctgaaatct accagcaagc ccaagttcca tcggtagatt gccagagctt cttagaaacc      660
aacgagggac tgaagaagtt tctgcaaaac tttctgctct atggaattgc attcgtagaa      720
aatgtccctc ccactcaaga gcacacagag aagttggcag aaaggatcag cttaatcaga      780
gaaaccattt atgggaggat gtggtatttc acttcagact tctccagagg tgacactgcg      840
tacaccaagc tagctctgga tcggcacact gacactacct attttcaaga gccctgtggc      900
attcaagtgt ttcattgtct aaacatgaa ggaactggtg gcaggacact gctagtagat      960
ggattctatg cagcagaaca ggtacttcaa aaggcacctg aggaatttga actcctcagt     1020
aaaagtgcca ttgaagcatg aatatattga agatgttgga gaatgtcacc aaccacatga     1080
ttgggattgg gcccagtctt aaatatctac ccatggaata aagagctgta tttgatcagg     1140
tacaacaact atgaccgggc tgtcatcaat accgttcctt atgatgtcgt ccatcgctgg     1200
tatacagcac accggactct aacgatagag ttgaggagac ctgagaatga gttttgggtc     1260
aaactaaagc ctggcagggt cctatttata gacaactggc gtgtcctaca tggcagggaa     1320
tgcttcactg gctaccgcca actgtgtggc tgctatttaa caagagatga tgtattaaac     1380
actgctcgcc tcttggggct tcaggcttaa aattgacagc atctggatta tgaatacacc     1440
tggcaccctg gctaccagaa tttcatatgg gcagaataat attgtgtcaa actctacttc     1500
agattgtctc cttatcccat cccacaaaac agaatctgtc cgtttctcta gtaagggaga     1560
cttgttggag aggcgggact ctgagttatc taatgtcaga catctagtgg ggcagctctc     1620
ttcctcatgt tataacatgg atccacttgt tttatttaaa cctttttaata taattttggt     1680
cagtctcctt cagaaatata atctccatat tgataggaaa gcaataattg ccatgaggta     1740
acgattttttt tcccaagtag atcagttaga aagaaatgca ttctagaaat aacaaaaatc     1800
ctgataaagc aacaatttgc aaaatgtttg gtcttaggac accttaacac tcttaaaagt     1860
tattgaaggc cccaaggagt tcttgggtgt gggttctatc tattgatact aactattttta    1920
ggtattaaga ctgagaaata aataaagctc aagaagaaca cagaagccct gtattgcggc     1980
cgggcagagg ataccagcag                                                 2000
```

        <210> 5896
        <211> 3775
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2313)...(1507)
        <223> similar to gi5542020 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5896
```
aaatgtgaat tttatgaact aaataaatat ttggaaaatt agcgtgcttt aaaagggcaa       60
ttttggtttc attaatactg tatactttta ctgctttaag atgttaagag agtaatcctg      120
ggaaaataaa acacatacaa ctttcaaaaa agacaggtgg tgtatgccct aatatttaaa      180
ttgctcatta aaggaagtgg atacaagcat taagatgaat catagcttca gtcaagaggc      240
tccacatata taggctgccc cggctccctc tcctaaatca tagacatcgt atgtagtacc      300
```

```
accttctacc aatttgattt tagaattagt aactgacaca aagcattcta ggacagacgc    360
catactatta tctcccacat tgacatttat taataacatt tctggcaaaa acaagtaaca    420
agttcaataa ctgaattcac atcaacaggt ttcattttga tccattagcc aatttggaaa    480
aaagccatat tgatcaaagg gattaaaatt aaaaagcacc ttttccttgc tacatataga    540
ttctttaaac taaaactcca agcagggatc agatacaaaa cccaactgca ggattgtttt    600
tattgactat gacatggact tgttgcttac attttttaa agtcatcatt tatacagtta    660
tttaaactct attgggcaga aaactgaaaa tacaattgtg agaattatac tccatagtaa    720
atacctatgt acttaatact gaattcttgt gtcactgaga accttaaccc tactctaaga    780
catcttgcga taacctgcaa ctatcaattt tttggagaca ttttttggtat ttcggtcaag    840
tgctgaaggg gtttttactcc aaaatctagg gctagaattc agcttccaac actctcatac    900
ccaggtaaca caattatgaa tattcagaaa tcaatacctc ttagatcatc aatgtttcag    960
agctatgcct gataaatgac atttgaaaaa taataatata gaaataatta gctgaattta   1020
tactcctgaa gccacttcat ctttaggctt tatatttaca gtgttgtcca ggaggaacta   1080
aagaaaaaag ttacactaat tatttgtcaa gctctattcc agatgtctgc ttaagacttg   1140
cagtttacgc agaggtgaac cattatcctc taaaattaca ccacactact tcttgtagaa   1200
ctaatagtaa aatacatcaa cccaaatctt atgaaggcag cacatcttta ggagtaacta   1260
gtatataaaa agtatcaaca tcagtggttt gaatataaaa atttattttt aagtcaaagt   1320
atgcaacaaa taaacctaca gaaaacattt tcccatcaca atctgttgct ttaccaaata   1380
atattttgaa aacacattcc ttcagtcatt ataaagttct taaaatacaa aagaaattaa   1440
atctgtaaga aagtctagta gaccagatgc tgttgtcaag acttgtatgt tggtgttttt   1500
gctttcagta catcccacgc catccacctc cactcatgcc gccttgccca tagtaacctc   1560
cactgcctcc accaccacgg ccataaccac ccaaaccatc aggagtacca tatcctccac   1620
tgtaattgtt ccccattccc attcttccaa ctgatccata gcctccctga ttatccattc   1680
catctcttcc gtagcctccc attccagaac ctcccatgcc agagccgcct ccaggagtag   1740
aattcaagaa gagttcaata tatcgatgtt gcatgttatt tttatcttta gacatggcag   1800
ctactgcatc ttcatgtgtc acaaaactct acatctggct ttcttccttg tggctctggc   1860
catcagcttc ccaatatcaa tatgaacttc gtattggatt tatgtggtga gaagaaatta   1920
gcaatgtcat tttcagttgc acgaaaaggc aaccctctca tatgtacgaa atgaccacca   1980
tgaaaacctg aacttgcatc accagctcca ccatagccat gtcctcccat acctcttcca   2040
tctctcattc tgtcatcaaa gccatcattc cccatagccg taattattat agccaccata   2100
gtcatcaaaa cctccataac caccatcata tccatcacct cctcgtcgca ttctgtcata   2160
catacttcca cgcccagctc cataataacc ccctcttcct cctattggtc tatcatatgg   2220
tcccggttcg tgtcccagca atcttcttgg tggatcataa aatcctttga tttcactcct   2280
gctacttctg aagatctcaa tatacctatt taaaaatgtt ttaaggtaca ggtttcagca   2340
taaatgtatt agtgtaaatt agatactggg caaaatgcag taagtttttc tatatctaga   2400
tacataaccc aatttaaatt gcctaaatac accgtaagtt aacagtttaa acctacaaac   2460
ttaattaaat atttaagttt tacaaagaaa ttagtcacgg aaaacaattc ataaagtata   2520
tttttacttt gtctctttta gtacataata ggtgttttaa aggaaatagg tgattataca   2580
aaagcattta tcaacaacat cctacagaga aatggaaaca atctaatttt aatttaacta   2640
ttagcattaa ttccccaccc aaatctgtag tttccaagtt aaatttagat aattatcaat   2700
tcttttaaac taccccagaa aaatgttatg gctaccccc catttaagca atagtgaccc   2760
acaaccccca aaaataaaaa tttaacacca tcccaaactc tccatcccca cctgtgccct   2820
attctttcct tgtgtttccc cagagcattt tctgctatct cctttgaagc aaactgcacg   2880
aaggcctccc ctgtgcttct cccctggtag tccatcgtca atgttatccc atttggcacg   2940
atttccaacc ctttaaccca aggacaaata accccatcaa ggggaacagt gttaaaggct   3000
gaaacattcc catctgaatc aaatatttaa aacaagtcta aacaaaacaa aacaaaacaa   3060
aacaaaaaag cttagtttcc catcacccca taatacaaat gaaagatttt ttcaaatatt   3120
actggattaa ataaattttt tgcgaccagt gtaaaaacac tgtgtaatta cacactctaa   3180
aagcccacct atattacatg aaaaaaggct acaaaatcaa atatatgctc catatactaa   3240
ttcacggttc atttcatcac aattctcaaa tatgttactg cacattaatt aggttttaca   3300
tattctacac attctgtatt gaatattaac tggagcatat tattttaata cattaaccaa   3360
gactatcata gttaaactta aaagttccaa aatcaaatgg gttttacaaa ttaaaaacag   3420
taaaacaata caaatataaa attacaatac tactaaactt tgactaatac tagaggtacc   3480
ttgaaagaac tgaactattt cctctttgct gcaaccaaat ggtagtccac gaagtcgtac   3540
tgtcccatca ctagcgtcat ttggaccatt atgtttcata acccaatcca tctcaatacc   3600
gtttgattta aatgcccctt ttacttcaga taccctgtca ggcgatagtt acgccgactc   3660
tggtgctcgc ggggtccagt tcaaagaagg gagaagtcgt ttgcctcgtg tagcgctcgc   3720
```

4435

```
        <210> 5897
        <211> 595
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (105)...(482)
        <223> similar to gi1345531 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




        <400> 5897
tttttttttt ttcattttct ccattttatt tgtcaatata aaaatactca aatatttaca     60
acaaataaat acgcggggac acaataagtt acactgttag gagccctcct cctagggctg    120
gaagagagta tgccattgtc cacagcaggc ccaccctctc ccttctctcc cctcacacag    180
cctttcccag ccctgtacag gaagaaggca agtataaaat accactgaac cccgggggcca   240
agtgggaggc cccacccacc cttcccccca aacacacagg aggctccatc tccctccccc    300
caccctgaaa acattcacag ccctaggagc aggattaggc caccccaag ccctgcactc     360
cctctgaagg ggcacagcac cctgtccacc ccacctccat atgtacatcg ctgcccgaca    420
ctcggggcag tgggggtagg agagacaaag tgatacgacc ccttcccctt catagctcca    480
atgactcatc aggaggacac atgccatggg aagatttgac ggagaaagga aggctatgca    540
cgtacgagca ggtgacatgt acgcaactat aagcacacag aaacccatgt gcaat         595
```

```
        <210> 5898
        <211> 2921
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(2922)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (358)...(2122)
        <223> similar to gi5912193 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




        <400> 5898
gtggccatag agcagacatc tcttaagatg atgcaggcag taggaggtgc acctgcacgt     60
```

```
cccactggag aatatatctg taatcaatgt ggtgctaagt acacatccct agacagcttt      120
cagactcacc taaaaactca tctcgacact gtgcttccaa aattgacctg tcctcagtgc      180
aacaaggaat tccccaacca agaatccttg ctgaagcatg ttaccattca ctttatgatc      240
acttcaacgt attacatctg tgagagttgt gacaagcaat tcacatcagt ggatgacctt      300
cagaaacacc tgctggacat gcacaccttt gtcttctttc gctgcaccct ctgccaggaa      360
gtttttgact caaaagtctc cattcagctc cacttgggct gtgaagcaca gtaacgaaaa      420
gaaagtctat aggtgcacat cttgcaactg ggacttccgc aacgaaactg acttgcagct      480
ccatgtgaaa cacaaccacc tggaaaacca agggaaagtg cataagtgca tttctgcgg      540
tgagtccttt ggcaccgagg tggagctgca atgccacatc accactcaca gtaagaagta      600
caactgcaag ttctgtagca aagccttcca tgcgatcatt ttgttagaaa aacacttgcg      660
agaaaaacac tgtgtattcg aaaccaagac acccaactgt ggaacaaatg gagcttccga      720
gcaagtgcag aaagaggaag tggagctgca gactttgctg accaacagcc aggagtccca      780
caacagtcac gatgggagcg aagaagacgt tgacacctct gagcctatgt acggctgcga      840
catttgtggg gcagcctaca ctatggaaac tttgctgcag aatcaccagc tccgagacca      900
caacatcaga cctggagaaa gtgccatcgt gaaaaagaaa gctgagctca ttaaagggaa      960
ttacaagtgc aacgtgtgct ctcgaacctt cttctccgaa aatggcctcc gggaacatat     1020
gcagacccac ctaggccctg tcaaacacta catgtgccct atttgcggag agcggtttcc     1080
ctcccttta actcttactg aacacaaagt cacgcatagt aagagtcttg atactggaaa      1140
ctgccggatt tgcaagatgc ctctccagag tgaagaggag tttttagagc attgccaaat     1200
gcaccctgac ttgaggaatt ccctgacagg ctttcgctgc gtggtgtgca tgcagacagt     1260
gacctccacc ttggaactca aaatccatgg gacgttccac atgcaaaaga cagggaatgg     1320
gtctgcagtt cagaccacag ggcggggcca gcacgtccaa aaactgtata agtgcgcatc     1380
ttgcctcaaa gaattccgtt ccaagcaaga tctggtgaaa cttgatatca atggcctgcc     1440
atatggtctg tgtgccggct gcgtgaatct cagtaagagc gccagcccag gcattaacgt     1500
ccctccggc acgaatagac caggcttggg ccagaatgag aatctgagtg ccattgaggg     1560
gaaaggcaag gtggggggac tgaagacacg ctgctcttag cttgcaacgt ttaagttttg     1620
agtcttgaaa gttgaacttc cagaaccaca tcccaaacca ttccaccgag gagtttcttg     1680
nccagacagc aacagcacac agttgaaaac gccccaagta tcaccaatgc ccagaatcag     1740
tccctcccag tcggatgaga agaagaccta tcaatgcatc aagtgtcaga tggttttcta     1800
caatgaatgg gatattcagg ttcatgttgc aaatcacatg attgatgaag gactgaacca     1860
tgaatgcaaa ctctgcagcc agacctttga ctctcctgcc aaactccagt gccacctgat     1920
agagcacagc ttcgaaggga tgggaggcac cttcaagtgt ccagtctgct ttacagtatt     1980
tgttcaagca aacaagttgc agcagcatat tttctctgcc catggacaag aagacaagat     2040
ctatgactgt acacaatgtc cacagaagtt tttcttccaa acagagctgc agaatcatac     2100
aatgacccaa cacagcagtt agtgcaagta cagtctctca aggagaattg attttgtggc     2160
acaaaaaggg aacatgtttt actctttgca cgaaactttc attgttaatg tatattattc     2220
agaaacattg tattgtacca taaaacttgt attatcaaac tgttggatgt tcatgtgttt     2280
gaactttgc gcaccggata gaccccttgt atataaagtg ttgcacatgt attatgtcgt     2340
ctgatactaa aatggtctta taaagacaag tggacttggg ccctattcag gcaagattaa     2400
aaaaaaaaaa aagactttga ccaaaatggc ttaaaataaa gtatttttaa ggaaaaaaga     2460
ttaaaaacaa ctgttataca tgagactatg gttggacttc cttttctta cacttaagcc     2520
tagaatttct ctttaggtat atcagcgctt aaatccaaga ctattttta ttgctgaaga     2580
ttcttgcaaa ccatgaagag atgttctcac agaacagaac cccacagctg gataaggccc     2640
gtatatatat atttgtaagc cttgcaatgt gacaggtagc atcactatat atgcaatagt     2700
tgttatgtag actgtcaaag aattttttt tccctggata catttgaagc tttgagtgtt     2760
caaggttttc cttaatgatt tcacgcagcc aaattcttga atcagttgaa ctaacctgta     2820
tgttactgtt attaatgttt actctgcagt ctgaacctgg agattactgg aattgttttc     2880
caagaggaaa taaattcagt ttaccattag gaaaaaaaaa a                         2921
```


<210> 5899
<211> 2119
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1321)...(690)
<223> similar to gi310200 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5899
tttttttttt ttgcaggttt agaaaataaa gtttgttggg atcttaaaca ttttggataa   60
aactaacaaa aaaatatgaa cacacattca ggttgtggtg ctatgaggag tagcgtcatc   120
ttatttagtt ccttgagata cacgcacggc tgctcggtga tcggtgccgc cctgggaaag   180
gttggtcagg aggtgacagg ggtctccagg aggagctcgg gaggtgacaa gggtctccag   240
gagggagcag gggctgctcg gccaggctgc cctggagctt gaggataagg tcaaggttgg   300
tatgtgttgc tccgacttga gaatgaatta ggtgtgtgac tgtgtggcat cgtgaacatc   360
agtagtgacg cagccgtggc ctgggctttg cctgcagcgc acttaggtta cacggagcgg   420
gatcagaagc aagcgattcg gcacacaggc gtttggccac agcaattagg aaatacatat   480
tctgcggcag ggacacgatc atattttggt gtgaagaaga gggcaagaga agcagaagga   540
gaatgggtcg gtaggtgtga aaagtgtttg gcatgcatgg gattaaacag aaaaggtgtg   600
gctgagattt cccagtggtg ctcacagtgc atggacagcg cggggtgggg cacggcgggc   660
ttcacacagt tctgtccgtc cctgagtgct tcctcaccac cttgcctccg ttcacctggt   720
cgaccgccag ggtcttcacc tcgggctggg cctgcggcgg ggtggcgtgg tggatccgat   780
gtgccacccc gacgtgggcc ttgtgcggct tttcgcgggc cgggctgtgc tgctcgccgc   840
ttcggtcgga ggcgatgggg gggatgacga ggggcctctc tttgatgagg tggacctcgg   900
cggactccct agccagcaga aatggggtgg ggtcgggcat agcatccact ggttcccgca   960
aaaggagttt cctgctctct gccccgaatc tgtagacctc ttcaaattcc gggtgcaagg   1020
gggctgagag gctctttttc atgcggcggc gaggcgtttc gggtagcttg tctttggggg   1080
gcgctggctt gtagctggcc agcacggggc tccctgacgg gctggcatct gaggtcccgc   1140
tggagctcat gagcttcttc ttggcggcgt gcagctggga ggtcaggtag gcgatggtgc   1200
tggcccgctg ctccagctcg ctagacagca gggtcagctt gtgactcttg gccttcagct   1260
cctccaggta cttcttctct cgctccttga tggtgttctc cagcactgtg atcatcgcgt   1320
ttttctgctc cagttctttc aacaactcag cattttcgtt ctctttcact ttcagttggg   1380
cttccagctc ttcacatctt ttctttaatt cactgctttt agaagtcccg tctcctgtct   1440
gttccgaact tttgactgtc agctcatatg ttaaatctgt gcagtgctgc tgcagccgcc   1500
tgatctcgga gtgcagcccc ttgagcgtgc tggcatgctc ccgctgaagg aacaggaggt   1560
tcttctgtgc gctgtgcagc tggttctcca ggtttgtggc tgccatgctg acatccagag   1620
gaccttcatc gtaactcgag aaatgtggtg aagtcatggg tctttctgga aaagctacca   1680
gagtaattca agacgcttgt acagcactga aaaatactga ggatgaaatg tgagttattt   1740
gcttataaat tattattgta aatacagaac ctcagaatgc attttcccta atttgctatt   1800
ccagagaacc ctccgtaaag gaggtacaac ttctcaatgg ctcccaggac gcagcccatt   1860
tgtaggatgc cacagtggaa ccgttttgga gacactgaca cacccaggct gtcactgctt   1920
cagacgacac caattgctca tcaattatct gtacgaccag tgacatgcat gcacactagc   1980
tctggagcta ggacgagttc ataacgaact tcagacatac actttcatca cacgaaaaca   2040
cttcctgggc gctgctccgg tggaaagcca cagactccac tccgagggca acctgagaac   2100
gcagagaagg aaataaaac   2119

<210> 5900
<211> 1781
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (273)...(544)
<223> similar to gi2664281 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5900
tccggtcgac gatttcgtcg ccattttcga gtgatgcctg atctcatcaa tctagcggga   60
gagacaggat aacctgtccg agagtatagc gccactatga ctccgccgga aaaattactt   120
taaaaatcgc caaaaattac ttggagcaaa gggcagtcgg cggagcttcg ccaaggctgg   180
cgcagtcggt tttgacctgt agcagagaac caattctgga gaacagcctc acttctttga   240
ttgaatactt acataatgca ttggaacatg acatgagatt aaggtttaat aatgatagaa   300
tgaagaccac aataaaagag acctctactt agctcagcaa ttcttacctt gtttttccct   360
tgatgtgaag tcttacctat ttgatgaaga tgtcttttga aaggtgtact gcaaggaaca   420
aaatgtttgt aaattctcct tttaccaagg tggataatta ctgtaccttc ctccatggaa   480
aaagttttat ttaaagtgtt atttctcatt gaatactatc aaaaaggaaa aaaaaatgac   540
ctaaactttt gagatagatt tggctctagt aagtatttag ttatatcact tgcatatctg   600
ggagaagaaa taagagacta tcatcagtac attcccatct actaaaaaaa tttattttac   660
acatgtcaag ggattactta taacttccat tttattacta atagcttgaa cccttttaat   720
gaagacctaa ctcctccacc agaaatttaa gtttatgttc ttactttgtt tacttataaa   780
atacatctca ggtatttcgg atgtcttttt tttttctaag cctatatgaa atgaaaaata   840
tattggcaaa gtaaatgttt aaacctttta cgttaaaatt actttgaaag atgaaaagtt   900
agtgctgttt ttgtcacgtt atactgaaat taaatgttta taatttatat tttgggttta   960
tgtataaatc atggaattta tgcaaaaata tgagtagtac agattctcct ctaattctgt   1020
aggactttga ataatgtgat attttcttta taattggacc cttgtgtttt gaagaaatgc   1080
caactgcttg aagaatctcc ttgttatttg tattatttgc tataggggtta gatgttgaga   1140
aattctgctg acaaaaaatt ttaagccagt tttacactaa atgttcctca gtctgattaa   1200
tttgttattg gatgtattct gtatctttct tttgtaattt gtgactttta tccacttagc   1260
acgaatgatt ctattaaaga aaatcattag gaagtggtag aaactttaaa tcgccccaga   1320
gtttgcctgt ttccatattt tattatctta taatcttcgg gagtgcttac acttatggag   1380
ctaacatttt cagagataca gcttcttata gtaacactaa aactttcttc ctctttggac   1440
tgaataccta taattataac tatatggtag tttaagtttc cttgtgatta gtcaaaaata   1500
ccattttagt atgaagcaat gaagtctatt atttgttgtc ccataattga gaaagcttaa   1560
atacaccttt tattaagagt ttgtaaattc tagcttagtc tacacagatt tttatatcaa   1620
tttgtttata tttttattaa tgtcatttct ggaagtgtga aaatgttaat gttcaacaag   1680
caacattaaa aatagatttg aaacatttat atatagagag gtacacattt atttactgtt   1740
taggtactga agattatcac ttaataaaaa atatatatcc c   1781

<210> 5901
<211> 2876
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (403)...(2758)
<223> similar to gi5679576 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5901

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tttcgtctga cacgcacgac tcccccccgcg gcaactgcac gggttcggtg acagccgaga      60
cgccgagtgt ttcccgcagc cggccggggt ccaggtcgga aatgtagcca gtggggccgc     120
cagcatccag cacagtgagc ggcccctggg caccaccaga aaacatttgt gggtgaacgt     180
ggagtgatga ccatgtggac actgtctttc cagggtttct tggagcctct gcagagtctg     240
ggggccaggc ttcttagtgg aaactgcagg atcttccttc tgacccctgc ttgcctcgcc     300
ccagcagctc cggttgagtc cacagatgcc agctcagctt ccagcttggg gaagagtggg     360
gttgtcagca ggagagcctg agggctgagg cccagcgtga acatggcagc taatggggac     420
tctcccccat ggtccccggc cctggctgca gagggacgtg gcagctcatg tgagcattga     480
gtcgttgcag gcttcagtgt catttgagga cgtgactgtg gacttcagca aggaggagtg     540
gcagcacttg gaccctgccc agagacgcct gtactgggat gtgacactag agaactacag     600
ccacctgctc tcagtggggt accaaattcc caagtcagag gctgccttca agttggagca     660
aggagagggg ccatggatgc tggaggggga agccccacat cagagctgtt caggtgaggc     720
tattgggaaa atgcagcaac agggaattcc tggaggaatt ttcttccact gtgagagatt     780
tgatcaaccc ataggagaag attcattatg ttctatttta gaagaactgt ggcaagataa     840
tgaccagcta gagcaacgtc aggaaaacca gaataacctt ttaagtcatg tgaaagtatt     900
gattaaggag aggggctatg aacataaaaa cattgaaaaa ataattcatg tgactaccaa     960
gcttgttcct tcaattaaaa gactccataa ctgtgacaca attttgaagc atactttaaa    1020
ctcacataat cataatagaa acagtgcaac aaagaacctt ggcaagattt ttggaaatgg    1080
taacaatttc ccccatagcc cttcctctac taagaatgag aatgctaaaa caggagcaaa    1140
ttcctgtgaa catgaccact atgaaaaaca tctcagccac aaacaagctc ccacccacca    1200
tcagaaaatt catcctgagg agaagcttta tgtgtgtact gaatgtgtaa tgggcttcac    1260
tcagaagtca catctgtttg agcatcagag aattcatgct ggagaaaagt cccgtgaatg    1320
tgacaaaagc aacaaagtct tcccccagaa accccaggtt gatgtacatc caagtgttta    1380
tacaggagaa aaaccctatc tgtgtactca atgtgggaaa gtctttaccc tcaaatcaaa    1440
cctcattaca catcaaaaaa ttcataccgg gcagaaaccc tacaaatgca gtgaatgtgg    1500
aaaagccttt ttccagagat cagacctctt tagacatctg agaattcata caggagaaaa    1560
accttatgaa tgcagtgaat gtggaaaagg cttctcccag aactcagacc tcagtataca    1620
tcagaaaact cataccggag agaaacacta tgaatgcaat gaatgtggga aggctttcac    1680
aagaaaatca gcactcagga tgcatcagag aatccacacg ggagagaaac cttatgtatg    1740
cgctgactgt gggaaggcct tcatccagaa atcacatttc aacacacatc agagaattca    1800
tactggagaa aagccgtatg aatgcagtga ctgtgggaaa tccttcacta agaagtcaca    1860
actccatgtg catcaaagaa ttcacaccgg agagaaaccc tatatatgta cagaatgtgg    1920
aaaggtcttc actcacagga caaacctcac cacacatcag aaaactcata ctggggaaaa    1980
accctatatg tgtgctgaat gtggaaaggc ttttactgac cagtcaaatc tcattaaaca    2040
ccagaaaact cacactggag agaaacccta aagtgcaat ggctgtggaa aagccttcat    2100
atggaagtcg cgcctcaaaa tacatcagaa atctcatatt ggagagagac actatgaatg    2160
caaggactgc gggaaagcct tcatccagaa atcaacacta agcgtgcatc agagaatcca    2220
tacaggagag aaaccgtacg tttgtcctga atgcgggaag gcctttatcc agaaatcgca    2280
cttcattgcg catcatagaa tccatactgg agagaagcct tatgaatgca gcgactgtgg    2340
gaaatgcttc actaagaagt cacaactccg tgtgcatcag aaaatccaca caggtgagaa    2400
gcccaatata tgtgctgaat gtggaaaggc cttcactgac cgatcaaatc tcataacaca    2460
tcagaaaatc cacactaggg agaaacccta tgaatgtggt gactgcggga aaaccttcac    2520
ctggaagtca cgcctcaata tacatcagaa gtctcatact ggagaaagac actatgaatg    2580
tagtaaatgt gggaaagctt tcatccagaa agccacacta agtatgcatc agataattca    2640
tacaggaaag aaaccttatg cttgtacaga atgtcagaag gcctttactg acagatcgaa    2700
tctcattaaa caccagaaaa tgcatagtgg agaaaaacgc tataaagcca gtgactgaga    2760
aagtcttcac ctggaaatca caactgggta tgcatcaggt atctaatagc agggaggagg    2820
aaggcctgtt gctgcaatca ttgtacaggg ggaaatgggt atgagagact gaggct       2876
```

<210> 5902

<211> 802
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (632)...(209)
<223> similar to gi3786408 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5902
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ttaaagtgtg aatatttggg gaacacagac caaggctgtg ccctgatttt ccctttctga      60
aagtcacact ttaactaaaa tatttctgtt ctacaaattt ccatatatca aaaaaaagct     120
gtagaattta attcatagtg tcttctcaaa aggaagagga aaacaaaaac agttcttcgt     180
aggagtcttt tattttttgg tgtcttaaat gtcaatgatc acaaaaactt ccgggttctc     240
ttcattatag acctgcattg ctgaatatgt tattgctttg acttctgttc cctgagggtg     300
cttggacaat gaaaattctt ctccccaccc ggggtatgaa gaattcatca gcactgaact     360
tataaagcca ttcatccaaa aagtgaaaca gaagagactg taagtcatct ccttgggttt     420
ctacttctac tgtttggagg ggctccactg tcccagtatc tgtcatgtaa ccaaacatgg     480
ccattgcaca ttgctcaaat gcttcctcca gagtatctcc ccatgcgtgt aaccaagatt     540
gaaacattca gtcttcctac tgacgtggtt tcaaaggaat gaactcccgc tatactcact     600
ggacatctgc tgtatgatcc aaatatgtaa agagagaagt aagccaccta ctcacactcg     660
tacttcctat tgactggcgg atacttggcc ttgatcgcct tctgttcttc agtcaaattg     720
taatctctgg catcttcctc ttcctgcgcc atgactgcag gattagaccg gcacgagctc     780
gtgcagagtt cctcaaagcg tt                                             802
```


<210> 5903
<211> 2805
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2788)...(243)
<223> similar to gi299471 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5903
```
ttagttattg ctgttaatct cctactttgc ttgatttatt gatttatttta ctgagatgga     60
tcttgctctg ttgcctgggc tggagtgcaa tggcgcgatc tcggctcact gcaacctccg     120
cctgccccac ctcgggttca agtgattctc ccgcctcagc ctcccgagta gctgggacta     180
caggcatgca ccaccacgcc cggctaattt ttgtattttt agacgagaca gggtttcacc     240
ctgttggcca ggctggtctc aaactcctaa cctcaggtga tccaactgcc tcggcctccc     300
aaagtgctgg gattacaggt atgagccacc gtgcccagca gaattttta actatttggt      360
tacgactaat ttggataatg tagtgcatgc agctttgatt tgtgccacta agagtgggca     420
aactgtcttc cttttttgtga atcagtaaaa attttccctc aacatgtgtt tgacagttgt     480
cattcactgc taagttaagg catttggtaa accacacagc ctctgcatcc ttcctagcga     540
```

```
cagccacaag aaaaggtggg catgggaggg aaaatgctct tgtgaattga actggaggca      600
agctccactt ttctttagaa aaagatgtag atcaaaataa ctaatatttt cttccttgct      660
cgatttctgt gccttccatg gtacatcaaa ataataggac cagtaatggc cacaatcctg      720
ttgactgctg ttaccttcgc cccaatattt ctttaagcat ttcttaagca tctagcttgt      780
gttttgttat atttaacaga ttttcttaaa gtattgtatg aattaaaacc agaaataact      840
tcattttcct agaaagggat aatttctccc ggagaataaa tcctgaggat ttagttagat      900
gctgtgggta ttgtatttta aataatattt taatgggagc agctgattga ctttcaaatg      960
gattgtttac attaatagta attctgcagt tgttttacta ttgcatcagt ctgccagaca     1020
agttccatgt gcatatttta attcagaact aattatactt aaaaatttaa accctgcata     1080
cttccccaaa aatgtttagg gcagttaaaa acaactcttt tggaagatga ctcgcatttt     1140
aagaaatgag agaacactgt caaatgatga atgcatttaa aaaataattt gcaaagtgat     1200
aaaagccctt agttttaaat cttacaatga cattagctct tacaagaact cagtaagtat     1260
ttgctgtttt ttaatgggat agtaataagg ttgaggtttt tgttaaggga cgtttactta     1320
tcatcaaact ctatacttac tactacaagg aaactccaag tacattaaac actatgtttt     1380
ataattcttt gccacactgc caataaattc tgttcacatt ttaaggatga caagtccact     1440
atatgtaaca cgtaagaatg ctatcctggc agtagacaca gggccagaat aaactggcaa     1500
gttttcattc cacacaagtg tgggaaaaaa atgactacaa cttaaacttt atttacttga     1560
ttgagagctt attgcacatg aaatgtttta tgtggttgat cttaacttcg tttacattga     1620
cttctatgct caagattgtt caattgctgc tgctgccgtt gtgttttctt tcaggatcga     1680
ggtgggtacc ttcatataat atcttctttt taatttcttc tctggcaatt ctttcctgga     1740
ttctttgctt tgcataatta tacctacaat gaaaccagca tcccaaagtc accaagataa     1800
accctcctac tccaacatca catgatcttc taattctact agtgaacaaa aaatgtccaa     1860
agccagccac aacagatcct aatgaaccat acaatattga atgccgggcg cagggagtat     1920
tttcaacatc taaaaatcct aggagcttaa gggactagaa tgaaaaaaaa gaacctagat     1980
tgagtaagaa agtatttcat tttggggtgc tttggcaaaa atgacaatac accatttctt     2040
ttcttgtagt tgagggttta aactagagta tgtgccacgt gacaacctaa atcagcttgc     2100
gttgtctttg tccacctttg gtatgcagtc tgaatcttta aatccgaaaa ccttacaaat     2160
tggaccggaa aacccttaag cagtagggta acttggagct gtatcttaat ttgctaatca     2220
actgacttgg aaataggata attcatttta tgagctcttt aaatgagttt atttgggaat     2280
atgcctatca ttggaattga aagcagcata gcttgcttca gtaactccaa taatttggga     2340
agcagaaatg gaaaaagtaa tttgagtcat gtttgcttat gtagtgccgt ttaaaattcc     2400
cctagtaatt acctttcata ttttattaac taggttaaca tcaactgtgg ttgtaagagt     2460
aaatgtttca ccttaagata aacatgggca atatattaaa ctctagtctg ttttcttgcc     2520
tgtgaagtga ggctgcactt gattatattt gattctttgt tcgtaataca tgggaacgac     2580
agctaagtgt ggtgaaaaac gcggggatcc aaagagctgg atttttatct cagatctgcc     2640
gctaactttt gtatcctata ggctactttt atttctatgg tctcaatcta taacatgaat     2700
gggttgggtt aaatgactga agttccttca agtgctaaaa ttcttttttct acagtcttca     2760
ttggatttat gtatttctta ttcctaatat gtttaactgg ggatg                     2805
```

<210> 5904
<211> 2765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1927)...(735)
<223> similar to gi412941 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

4442

<400> 5904

```
ctgcagcctt gacctcccag gatcaagtga tcctcccacc ttagcctcca gagtagctgg      60
gaccacaggt gtacattttt taaaagtgtt ttgtagagat agggtctcac tatgttaccc     120
aggctggtct caaatgcctg gattcaagta atcctcccat ctctgcctcc caaaagtgct     180
aggattacag gcgtgagcca ccccgcctgg cctgaactac tatctttat tgtcttcttc      240
actatccccc actaaagcag gttcctggtg ggcaggaact cctcccttaa cctctctggg     300
cttgtttcct cacctttaaa atgggtgtta tcagagtccc tgcatctcag agtgttgcta     360
tggtgactga atgagttcat taatgtaagg cacttcaaca gtgcccaagg tgctcaataa     420
atagatctag ctacagtagt gttccccact ggtccctgt gccttgatgc cgggcaaagg      480
aatagtgcag acaggcagga ggaggcagag agggagagag agggagtggg agtgggggaa     540
cgtcagggat ggagacccca ggcaggcgcc caatgacaca gagatccgca gtcctctctc     600
catctttaat ggggccccag gtgggcttgg ggcacgggtg tccttaaata cagcccccat     660
gggcaaggca gcggggggcgg ggcggggtgg ggccgggcct gccggggcgg ggcggggcgg    720
ggcgggacct cagctgcact tgcaggagcg cacgatcatg ttggacagct gctccacctt     780
gggcttgcgg cccacggtag tacacgatgg gcaggggtt ccagcgcctg cggcacgcag      840
caccggcgcc gccgaagcgc cccggtttat gcctggttgt acagggccag gaccttgctg     900
tactgcgtgt ccaggctcca aatgtagggg cagggcccga gggcagaagt tggcatggta     960
gcccttgggc ctcgtggaat ccacttccca gccgaaggtc cttgcggaaa atcaaatgtt    1020
aacaatgccg caacgcaagc aattccttcc tccgtggaag ctgaaacaaa taattggtgt    1080
cccagggcct ggcggtgccg ggaagctttg cagatgctgg gccctctcca gcggggtggc    1140
catgagaagc aggaaaggcc ggttcatgcc atgaatggtg gccaggtcac ctcgggcggc    1200
cggtagtgaa cccgttgatg tccacttgca gtgtgttatc cctgctgtca caggagcagt    1260
gggcgctaag gcgaaagccc tcaatttccc ctccacggct caaccactgc cgcacaactc    1320
cggtgacatc aaaagataac cactctggcg agtcgctggg tgccagcagc cggttgctga    1380
ggtatcgcca ggaattgttg ctgtatttct ggtacagctc cacgtgctgc tccactttta    1440
acttgagcct cagcagacgc agctctgccc gggagagcaa cacgggttca ggtaccgctt    1500
ctcggagctc tgatgtgttg aagaacatat atatgctgtg tgtactctgc ttgaacttgt    1560
catagatttc gttgtgggtt tccaccatta gcacgcgggt gacctccttg gcgtagtagt    1620
cggcctcagg ctcgggctcc ggttctgcac tctccccggc cacccggtcg cgggtgctgt    1680
tgtacagggc gagcacggcc tcgggcagcg ggccgggcgg cacctccccc tggctcgggg    1740
ggctggcgag ccgcagcttg gacaggatct ggccgcggat ggcctcgatg cgcttccgct    1800
tcaccagctc catgtcgata gtcttgcagg tggatagtcc cgcggccggc cggccaggcg    1860
tcagcaccag tagccacagc agcggtagca gcagcggcag cagccgcagc ccggagggcg    1920
gcatggggga ggcggcgccc cccggcactg ccgagagcgc gaacagggct ggtgtggtgg    1980
ggaggccccg cccctgcagg ggctgggggt ctcccggcaa aaggtaggag ggcctcgagg    2040
gaaagctgag gctcctcagg gagaagggcg cagtggtgga ggggaggctt ggaccggggg    2100
tgtctcagta tcccacggaa ataacctaga tgggcgcgat ctggtaccag aaggtgggtg    2160
gtcttgaata ggggatctgt ggcaggtcgg agagagatcc gtctcctgga ggagaaaggg    2220
tctaggatgc gcgggggctc aggagacagg ccggggatga aggcggcgtg caggggggtgc    2280
gcccgaggtc tggggaaaag tctttgcggg aggccgggtc ggcgactccc gagggctggt    2340
ccggaatggg ggcgcctgag ggacgccgtg taggggggcag ggagggagca agcgtccccg    2400
gcggcaaagg gaggcggtct ggggtcccca agtcctgcct cctcgcgggg cagcgtcgcg    2460
ccaagaggtc cccgcgcctc cggctcccag cggcaacgga aaagtctcaa aagtttttt     2520
cctcttctcc cgaccagctc gtccctcctc ccgctcctcc tcccctcct ccccgcagtg      2580
gcggggggcgg cggcggctcg tctcagactc tggggcctca ggctgctcct cggcgactcc    2640
ttcctccgct ccgggccgag gccggccccg cgggcggctc agagccgggg ggggtgcccc     2700
ggacggggcg tcccccctgc ccccggccgg ggccctcgct gtctggctgc tccgcggagg    2760
gaggt                                                               2765
```

<210> 5905
<211> 1874
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1875)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1829)...(1817)
<223> similar to gi5566244 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5905
ttttgctcca agcgaattaa atggggaacc cccgggggttt tcccctcccg acgttgttaa   60
aacccgggcc cggaaattga ttttggggggc cccaaaaaaa aaatttttacc ttgccagccc   120
ccggaaataa aacttgattc tttaaaacgg cccccccttt tttttttttt tcacatgtgt   180
aacatttatt atattaatac ttaacaaagc cctccaagac ccaggctccc cctaccccct   240
accttgggcc acgtcttcat cttagtcttt ggagagaaag ctctgaagtc aagtggtgag   300
ttttccagaa caagtggttc ttctccttga tgacggccca gtcctcaaag ctgtcgatgt   360
gttccttcag ccgcgagcag agctgcacgt tgcccacgta gtccaggagg acatcgatga   420
tgggccccgc ccagcggctc acctctgggg cagatacgaa ctcacagaac tgcaccacgc   480
tgggctcctt gtcggccgcg ggcgcgtcgt tgaacctgct ggagggctgc ggggccggcg   540
ggtgcgggcc gttgccgtag aggcatgaga agcagggctc gccgtcgcag cccaggtcca   600
tgaggaactt gagcagcgac aggcacttca tggcgaacat gatggtggcg gggaaggcgg   660
tggggtgcgt ggcgatatag gcgtcgatgt tcgcgccgtg gtccagcagc agctgcattg   720
tgcgcaggca gccgtggcgg atggccacga gcaaggggct gatgacgtcg cggttggggt   780
cggcgccgtg ttgcagcagc agctcggtgg cgtacacgtt gttgttgacc accgcgaagt   840
acagcgcgga gctgcgccgg tcttcgtaga ggcgcgcgcg ctcgggcgcc agcggcgtgt   900
tcacgtcgaa gcgcgcgctc agcagcgcct ccagcacctc gtcgtggttg cgctcggccg   960
ccaggtgcag cggactgacg ccgctacggc gtatgcgcgt gcggctggtc accggcagca   1020
gcatctgcac gatcctgtag ttgcccttct tggaggcgat gtgcagcggg agcaagccgt   1080
ccttgttggt cttgttggcg tcggcaccct gtgacagcag aaactccacc acctcctcat   1140
gctcattctt gcaggcctcg tagagggcag acgcgttgtc gctggcctgc gtgttgatgt   1200
cagcaccgta cttggctaag aacctcaagg cctccaactg tccactctgg gcggccacga   1260
acaaggggct gatgccgtag gcattcttgg attccacctt ggctcctccg ctcaccagga   1320
tctgcatgac ctccaggtca ttgcgagaca cagactcgtg cagagcggtc cagccgcggt   1380
tgcagcggtg gttggtgtct gcgttgtgct gcaccaagaa tcttcacggc ttccgcgttc   1440
ttgcgctcac aggctttgta gagcggtgtc tctcgggatt tgttggagat gtccggctct   1500
gcccctgctt ggagcagtga caggagacag tccaggtggc ccctgcacgt tgccaaagta   1560
aacggcttgt ttcctcctgc agggtgcgct ggtcgatggt cccttgggta cgctcgctgc   1620
aggactttca ggcagcccac ctggccatag tatgcggcct cgtgcagcgg cagccagccc   1680
tccttgttgg gctctgcgag attcttccct tccttgatca tggtcttcaa ggcctcttca   1740
gtcgccatcc ttgatggcct ttatcaaggg gtccgcaggc gccagctggg aggtcttgaa   1800
caagctgctg ctgtatttct gcatgacccc ttggaacagn cccattgggc ccgggccggc   1860
gaactctcag gagg   1874

<210> 5906
<211> 2838
<212> DNA
<213> Homo sapiens

4444

```
        <220>
        <221> misc_feature
        <222> (2769)...(353)
        <223> similar to gi4995641 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




           <400> 5906
        tttttttttt ttgactgttc atggccatct ttattcccag tgctggctat cccaaaatac     60
        tgccaggcca cagccaaccc ccacctttgc caatgtgact gggtcaccac cccatacacc    120
        aaagcagcct tgagccctgc cccaccccct gccctgcgga agccaagtcc ccagctataa    180
        aaccctgccc ctcctggtgg cccaggaccc tcaaagatgc acacaggggc cccagcgagg    240
        ggcccctccg tcattagcct tctcctccag gctgggctgc caagcagcct ggagctgagt    300
        ctgtcccttg gacgctgggc cacgtcacct tctcctccag aaggcttcac ctatgggccc    360
        aggaagtcct ccttccgata gcccttcgcc cggaagtcac ggtggagctt gttgtactgc    420
        cacaggttgg ccaggaggct ggatgctgcc cgggaggact tctcactgtc ggggctgtcc    480
        cgcttcttct tgatgaagat gagctttcgg agtccgtcaa aatacagcag gtctcgggca    540
        agcgaatggg gctggccaac caacccaggt tgttgaacac agctatgaat gttgaaccag    600
        cacctcggct gggggcgact tctcacccac gctgcctggc agcttctcga atcaggtggc    660
        tccaccacct tcgtggacat ctcgtccttg ttcctagcgt tccgagacag gtttcggatg    720
        aggccagtca gtgagcgcag ctggtggtgg tcggcggtcc tgacacggtc tagcaggggg    780
        ttcagaatac gctcctgctc cagggccagg cggcttagcc ccccggccc ccttgggttc    840
        gcctcccgtg atgttctgca gcgccccggc ggccgcctcc gtcgtgtgcc ggttgagctc    900
        gcagcgctgc agcagccggt tgtacagccc cacgatctgg gggctccaca gccactcgag    960
        gcccttgggg tccttggaca cctccgcgaa ggtgagcgca tcggcggcga ggggcagctc   1020
        gcgcagccgc cggctctgcg gcgtgaagca gcccacgacc tctcccggcg cgcccccgc   1080
        caggtccctg cggccgcgac cctccagccg ctgcagcgcg gacggcggca tctcgtcgta   1140
        gaggcggtag gacaggttcc gcaggacgca caccgcgttc tccacgctct tgtcctcgca   1200
        tttgcccgcg tccagggcgt ggttgataga ggtgaccagg gcgtccacca gcccgtggca   1260
        ctcccgcatc ttctggcgag tggcctgaga ggctgagctg aggttcctgg ggaagccggt   1320
        ggcgttgtag aagatctccg cctccgaggc gttctgctgg atgagggggg ggaccccag   1380
        cccccgacaa gggggctcaa acaccaaggt cttgtgagct gcttccagcg gtgtcttctt   1440
        ggccaggcgg tccttcaggt ggtcgctcgg atgaaaggtt ccacaggatc cctgtgacat   1500
        ttttgcgaag ctcatcatcc tgctcccgca gtgtccgcag cagctcgaag atcccgttct   1560
        cctccaccag ggccagcttg ttgtcagcgt tgtcgtagat gaggttgcgc atggcacctg   1620
        tggcatggcg ctgcacttcc tggttggcgt ggttgaagag cttcaccagc ctaggcacgg   1680
        cctgaaggct gcgggcctgc ttcttggcgg ctgcatcgct gtagcacttg tgctggatgt   1740
        aggccgctcc cagcacctgc aggttggggt ctgaagccat gaggtacttg actgctgagg   1800
        gcaggtcaat gtcatcaaaa ccgctgctga gtctctgcag ggttcggtgg ctaccgtagc   1860
        tgttgaaccc atgcacgtcc ggcaggtggc ccgagtcagc caggctgagg ctgaggctgc   1920
        gcacagatgg cgctcgagcc actggctcca ggacggcccc cggcactgcc ccgcctaccc   1980
        cgcggctccg gtggctgctc tggaatcgct gcagggtccg cacggcaggg gcacggatgg   2040
        tccggctcgg ggaaacctca gtggcctcgg gccagtccag ccccctgcc cggctggagc   2100
        tggagctggc ctggcgctcg tacgcaaagg ccctgtaggt ggaggtggcc gcaggctcca   2160
        gctgctcaga caccaggctg tagcggtcgt ccaggcccc gggccccagc cgcagcgagc   2220
        gcagggagag tgtgtcatag tcggcccggc tcccaacccc accgcgctca tggaaggaca   2280
        cgggcctggt gggcatggga ggggtgggct gggcacccc gtacccagcg gccccaaagg   2340
        cgctgccccc gttgtgggct gaactcagcc tccgactgca gctcagatcc acggcggagc   2400
        gggaggacca ggaggctggg ctgtaggccg gcttggcgat gggccggaag cccgaggtct   2460
        tgtccccact caggccctga gagcgagagc tgaagccagc ctgcagggtg tggtactgcc   2520
        ccctggatgt gcctctggca gtctcggcct caggctcggg ctcagcggcc ccgttgtgcc   2580
        gcggctgctg tcccagctgc aagaggcggg cgcggacctg ctcctggacg cgggctgccc   2640
        gcagccgctc ggcctccggc ccctcggcgc cccggcggtc cagctgcagg tcagagggca   2700
        gcgccaggga gcacacgccg gcctcaggct gcagggccga cagcaggaag ttaccgtcct   2760
```

gcatggcggc aggtccaccg ggcctgggcc tggcggccgc ctccaaaccc aactatcttc   2820
acgtcctgtc cggaattc   2838

<210> 5907
<211> 873
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (382)...(694)
<223> similar to gi4769004 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5907
gaatctagga cattctatag agcctggatt cttcaaaaaa gtcatacaca cacacacatg   60
tacgtacacc ttaatttata agatagaaat caaaagaaac tacagagatg aacagcccaa   120
tgcaaggcat gcccttcatt gatttctgga ttttttaag tcataaaaga tatttgggag   180
tcacttaaga aaattagaat gcaaactgta tattaaatgg cattatggaa ttatcattac   240
ttttcttagg tgagataagg atattgtaat tatacaagag atgtccttca tctaggagat   300
ggctgctgaa gtattgaagg gtaaagtgtc ctgtgcttat aactggcttt caaacagaca   360
aacaaaaaaa gctggtccaa aatggcagtg gcaatggatg cggataccc aagaagtacc   420
aacagcagtg ctttgaagta aaaaagtgaa atgcagtagc tagccctctg ggcttgggat   480
gttgtggtta ataactgtgc catctgcagg aatcacagca tggatctgca ttgaatgtca   540
agctaaccaa gagtctgcca cttcagaagt gtgtaccgtt gcacggggag cctgtaaccg   600
tgcttttcac ttcactgtct ctctcactgg ctcaaaacac aacagctgtg cctgttggac   660
aacagacaat aggaattccc aaagtatgga caccagaaaa agaattcttc catcaagctt   720
aactgttttg tgattcattt aatgacttgc ccttctgtca cttaattata aattagatag   780
aactgtgtct tttctgcttt gtctttgcca tttgctgttc tcgcagccac attgtattct   840
gtgtcaaata aagtccagtt ggattctaga gcg   873

<210> 5908
<211> 1316
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (886)...(224)
<223> similar to gi296669 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5908

```
tttttttttt ttggagaagg aaatcgtctc aattgtttat tcgactcaca gtcagtgcac    60
acactctacc atccaaaagt cgaagctgtg acaatcgact gctacaggca gtgcatggat   120
gtgtaaacaa acacaaatga aaatgcaaat cagagtgggc ggggccaagg cccactgtta   180
cattcacagc acagggtaag tgcaaaagaa caggatgtca ggatggggggg cggggagcac   240
agggtccttc ctgccctgga ggctgcctcc aggcatcagc ctgggaggtg ggttagtgcc   300
catggaaccc tcctgcccag gaagctgcct ccgggcatca gcctgggagg cgggttagtg   360
cccatggatc cggtgtctgg gaaggggccc acagaagatg ggccacaccc agcatcatct   420
cctctctgtg gtgcgccctc ccatccccag accccctttcc cattcagggg agaggggccc   480
tggtcacagg agccagtcct ctgacctcct gagtgtggaa acccaggagg ggagtgtgtt   540
tctcctgcag gcctctcaac ctggaaaggg cagagccaca gcagaacgcg ttggggccac   600
agacactcgc tcaggtgaag acactgagaa gacactgccg ggctgacaga acccgcggcg   660
ggggaacgcg cttgcaaaca ggactctcga ggcccagggg aggctctgcc ccataaggcc   720
caaggagcgt ttgtgcgttg aactgaaggc aaagtgctgg gcagtttctt gtcctaatga   780
aggtgggggaa gctggtccgg ccacatacat cctctgacct cccccaagtg gtccccgggc   840
ccacaggtga caggggcctg agcgatccct ggtctgagcc cccagctcag agcctagcac   900
cacccaggga ggtctgggct catggaaggg ggatgggcgg gggcaggagg gcccagcccc   960
acctccgccc gtctttggtg gtgacagagg tgggaggaga aaagacgatc tttggtaggg  1020
cgagggaatg tcaaaggaca ctgtcaaggg cccagttcct gctcagaaga gagcacagga  1080
gtgggaggcc cacctctgcc ccatctctgg atggcccagg cctgctgccc actaaggtgg  1140
ccccactctc cttctctgga gttgcaaact ctctgagaag gcggttgagg tggggagggc  1200
atcaggacag gccagctgga tgctgagacc atatagccac aggtggcttc tagctcagga  1260
cactgtgacc ttctcctcag ggctctaggc cccatccttc acctcctccc tcccag      1316
```

        <210> 5909
        <211> 1913
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (419)...(132)
        <223> similar to gi5816693 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 5909
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ggaggacccc ctggctggag ctgacccaca gagtagggaa tcatggctgg agaattggat    60
agcagagtaa tgtttgacct ctggaaacac tcattctcaa tgcaagatcc tccgctgcaa   120
tgctgagtac gtatcgtcca ctctgagcct tagaggtggg ggttcatcag gagcacttcg   180
aggaggagga ggaggaggcc ggggtggagg ggtgggctct ggcggcctct gtcgagccct   240
ccgctcctat gcgctctgca ctcggcgcac cgcccgcacc tgccgcgggg acctcgcctt   300
ccattcggcg gtacatggca tcgaagacct gatgatccag cacaactgct cccgccaggg   360
ccctacagcc cctcccccgc cccgggggccc cgcccttcca ggcgcgggct ccggcctccc   420
tgccccggac ccttgtgact atgaaggccg gtttttcccgg ctgcatggtc gtcccccggg   480
gttcttgcat tgcgcttcct tcggggaccc ccatgtgcgc agcttccacc atcactttca   540
cacatgccgt gtccaaggag cttggcctct actggataat gacttcctct ttgtccaagc   600
caccagctcc cccatggcgt tgggggccaa cgctaccgcc acccggaagc tcaccatcat   660
atttaagaac atgcaggaat gcattgatca gaaggtgtat caggctgagg tggataatct   720
tcctgtagcc tttgaagatg gttctatcaa tggaggtgac cgacctgggg gatccagttt   780
gtcgattcaa actgctaacc ctgggaacca tgtggagatc caagctgcct acattggcac   840
aactataatc attcggcaga cagctgggca gctctccttc tccatcaagg tagcagagga   900
```

```
tgtggccatg gccttctcag ctgaacagga cctgcagctc tgtgttgggg ggtgccctcc      960
aagtcagcga ctctctcgat cagagcgcaa tcgtcgggga gctataacca ttgatactgc     1020
cagacggctg tgcaaggaag ggcttccagt ggaagatgct tacttccatt cctgtgtctt     1080
tgatgtttta atttctggtg atcccaactt taccgtggca gctcaggcag cactggagga     1140
tgcccgagcc ttcctgccag acttagagaa gctgcatctc ttcccctcag atgctggggt     1200
tcctctttcc tcagcaaccc tcttagctcc actcctttct gggctctttg ttctgtggct     1260
ttgcattcag taaggggacc atcagtccca ttactagttt ggaaatgatt tggagataca     1320
gattggcata gaagaatgta aagaatcatt aaaggaaggc aggggcctag ggagacacgt     1380
tgaaacaatg gacatttttc cagagtcaga tgtaggctgc agtcccgggg ttgaaattat     1440
cacagaataa ggattctggg caaggttact gcattccgga tctctgtggg gctcttccac     1500
caatttttcc agcctccatt tattggtaaa ccaaattgtt cctaacccca tttactgcca     1560
gatttcaccc cttataagtt tagaggtcca tgaagggttt taatggatcc agtaaggatt     1620
ttaagggttg agatttttaa ggagccaaga gctgaaagca gaagacatga tcattagcca     1680
taagaaactc aaaggaggaa gacataatta gggaaagaag tctatttgat gaatatgtgt     1740
gtgtaaggta tgttctgctt tcttgattca aaaatgaagc aggcattgtc tagctcttaa     1800
ggtgaaggga gtctctgctt tttgaagaat ggcacaggta ggacagaagt atcatccta      1860
cccctaact aatctgttat taaagctaca aattcttccc cccaaaaaa aaa              1913
```

<400> 5910

```
agtcagggga gacctgggtc ccccgcactg acttcctttc tcctcacagg gcaccagcct      60
ccaaatggct atggaccggg agcagaacca ggtgaggagg cccttcctgg agttcctccc     120
ctcccttccc ttcctcttcc ctcctcttcc ttctgccatc ccaggaagag gggaggccag     180
ggctgtggct ctcgctgacc cccatctgtg agtcacagtt ttctctcccc caggttttaa     240
tggtggcctc gagccacaga aaattggtga gtcctcctgg gcccccgacc catgttgagc     300
ggaagctggc atctccctca tgcctgagtc agtctgtctg tccgcatccc cctgtctatg     360
agctggtcac ctggccctcc tgatgctgtc cctgttccac tagcctgtcc ctagctcctc     420
tccaatctct gtcctgcagg tttaggttat gggaatggtg tcctgggagc cagggtcttc     480
cccgaggccc acccacagcc aggtgcctgg ggagcagggg tcggggtggg agagttgggc     540
tcagggcccc agcccagcct ctgacaccct ctttcctcct ccagggttcc atggggccaa     600
tggtttttagg aatagtgagt cagacccagg ggacaaagtg cagtggagtg ggggagacaa     660
cagcccaggg gctaggcggg aatgaccaga gtctcttgga ggggatgggg tggaagctct     720
ggtgtacccc aaagcagcag ctccagcccc tgaaggaaat ggtaagaaat gagccttctg     780
ggagcagagc caagcccaac aggggccagg ggtcccagct cctgtgggca agggtacccc     840
tgccatcaga attccaccgc acgg                                           864
```

```
<210> 5911
<211> 978
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (737)...(262)
<223> similar to gi206352 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 5911
tttttttttt ttctaaatgt gtttactatt tatttttac tcttaaagtg atgttattta        60
catgtgttgt tagaatgcaa accttatcag taggacatca aggattaagc tctggcagta       120
ttaatagtta gaacagtcac atgtatgcaa atttttacat agttaaaaag aagaatcact       180
gtaaaataaa tgcttattct ttaattataa gtgatgtgga acaatgtgta cttagttcta       240
aagttcagtc aaggagactt ccaggatgtg catagctact gtatgagtgt ggggtgcaga       300
gatggaggat gcttctggaa gtcaagcagt ggaattccat ggtatactca gaaaagttaa       360
tagttcagtt atttccaaga agccttcttg ctgcagacca gtaattaatg gtcccgctgc       420
tcctctcttt cattggtgcc ttcttcttct tcagggaatg ctgattcatt ctggcctttc       480
agatgcttaa cccctttat ggtgggtggt gtgtacacac tctgcttcct ttgcttaggg       540
gatgcattct gtaattcccc ttgtgtgttg ggccccctct tgtcatctat ttctgggggg       600
ttatgctcat tgagaatcac aagtgatgct ggtgtaggtc ttctttcct gatctgctct       660
gctgcttcag gtgcaatctg actctggaat acaggcacgg caaactgtat cttttgga       720
ctgttgggct ccatggtaat gatgataatt agtcagagat gtgaagagct cagaaagact       780
aaccctaagt ggtgtccggg atgtgtttcc tcagacacac tccactaagc cacacagagt       840
gcttcgtaat aaatagctgt aattccagat cgagcaagtg aagatgccga ggtttgagta       900
acccccttct tcaacatcca cggtgatgcc tggcttgcct gttcccccac caatcccttg       960
gatcctctca gcacaata                                                    978


      <210> 5912
      <211> 783
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (706)...(737)
      <223> similar to gi1196912 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


      <400> 5912
cggcggtgcc cgggcgtccc ctgcagacac gcagccccgt ggaactcccg gcgggacggt        60
tggggctgga ggaacaggac gcccgctctc ggcctccctt cccgggcctg ggctgagggc       120
agccgttggt gggtttcagg gccgcctggg cagaatgtca cgatggacga gggcggcacg       180
cccctgctcc ccgacagcct ggtctaccag atcttcctga gcctgggccc ggccgacgtg       240
ctggccgccg ggctggtgtg ccgccaatgg caggccgtgt cgcgggacga gttcctgtgg       300
```

```
agggagcagt tctaccgcta ctaccaggtg gcccgcgacg tgccccgaca cccagcggcc      360
atgtcctggt acgaggagtt ccagcggctg tatgacacgg tgccctgcgt ggaggtgcag      420
acgctgcggg aacacacaga ccaggtcctg cacctcagct tctcccattc cgggtaccag      480
ttcgcgtcct gctccaagga ctgcactgtg aagatctgga gcaacgacct gaccatctcg      540
ctgctgcaca cgcgcggacat gcggccctac aactggagct acacccagtt ctcccagttc      600
aacaaggacg actcgctact gctggcctcg ggggtgttcc tggggccgca caactcctca      660
tccggcgaga ttgctgtcat cagcctagac tccttcgcgc tgctgtcccg cgtgcggaac      720
aagccctatg acgtgtttgg ctgccggctc accgagacca gtctcatctc ggggaacctg      780
cac                                                                    783
```

```
    <400> 5913
tttttttttt ttatttgcat gtgccaggaa atatcctaca tttattgtta caaaaaccat       60
gttatcacgt tagtgtggaa ttctttagaa gccccggcta aataagcttt agaaatggaa      120
tgccttcaat ggctcaatct cagaaatggc aaaattctag gacacatcaa gacctgctct      180
tccgctttcc actagttccc aatctttgat ttccaggttt tggccctttc aaacccattt      240
tttgcgtttc tgaaatcaag aatagcttga gaaatctctt cattggtgtt catcacaaat      300
gggaccatgt tgggataact gggttctctt aatggctccc cagcaattaa gacaaagtgg      360
gcttctcttg ggatccttgt tctccacttg ggacactggt caccttctcc aagcaactgc      420
tgtgtgatga ggttctattt ttttggtggg gcatcatcgg gccccatata cacatctcca      480
gatatcgtgt aaatgaagct tgtccaccct ttaagggata ggttgggaaa tgtttggctc      540
cctgggtcca atttgaagtc caaatataag gttggtgtgc caagtgtaaa ccttggacct      600
tattcccaga gctttctcag aaatgacagc aactgtcaca ccatcctact tggggttaag      660
ggatttcttt acttttcagt tcctgggtac ttggggctcc accatcttct ctgagctcct      720
caaattaaac ccacagttgt aagcccatgg gctgggctcc tctgagcaag gcatctcagc      780
gtgcagaatg ccccggcccg cagtcatcca ctgcaaatct cctgggttca ttttaccagt      840
gtgtccacag aagtcttcat gggccatgct gccccctttcc aggaggtagg atactgtttc      900
aaaacctcga tgtggatgat caggaaatcc tcctggtcta cctcctttaa attcatcaaa      960
cagtaaaaac ggatccagat tttttaactc gggtctgcca atgcttctcc ggaccctcgc     1020
tccaacccct tccgactgct cccggctgag cactgagaga gtaactttct tggaggaccc     1080
catatcggag tctaaaaaga gagtgttctg atgctgagct gtagaggatg gaggggctgc     1140
ggtagcggca cctggagcct tagcggcggg ggtgacgcga agagccgccg ggagcgagtg     1200
cagggagggc aggttaagag agtgtgggtc cagtcgcctc accgtgactc agcgcttcgc     1260
ggccggcggc ctagaggagg cgggagg                                         1287
```

```
    <210> 5914
```

<211> 2977
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (57)...(2602)
<223> similar to gi1907120 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5914
```
caagtgtgga gaaagcggct ctgggtctag attgagggat actcccctt  tccaccatgg     60
gcaagaaggg caaagttggc aagagccgac gagacaagtt ttatcacttg gcgaaggaga    120
cgggttaccg ttcccgatct gctttcaagc tgatccagct caatcgccgc tttcagttcc    180
tgcagaaagc ccgagccttg ctggacctgt gtgctgcgcc aggggggatgg ctgcaggtag    240
ctgccaagtt tatgcctgta tccagcctta ttgtgggagt ggacctggtt ccaatcaagc    300
ctctccccaa tgtggtgact ctccaggagg acatcacaac agaacgttgt aggcaggccc    360
tgaggaagga gctgaagacc tggaaggttg atgttgtgct caatgatggg gcccccaacg    420
ttggggctag ctgggtccat gatgcttact cacaagccca tttgacactg atggctctac    480
gtttggcttg tgacttttg gcccgtggtg gcagcttcat cacaaaggtt ttccgttctc     540
gtgactatca gcctctgcta tggatctttc agcagctgtt ccgccgtgtc caggccacca    600
agccccaagc ctctcgccat gaatctgcag agatctttgt agtctgccaa ggattcctgg    660
cccctgacaa ggttgacagt aaattctttg accccaaatt tgcctttaag gaggttgaag    720
ttcaggctaa gaccgttact gaattggtta ctaagaagaa gccaaaggct gaaggctatg    780
ctgagggtga cctcactctc tatcaccgta cctcagtcac tgacttcctc cgagctgcca    840
accctgttga cttcctctcc aaggccagcg aaatcatggt agatgatgaa gagttggcac    900
agcatccagc taccactgag gacatacggg tgtgctgtca ggacatcaga gtgttggggc    960
gcaaggagct caggtcgcta ctaaactgga gaacaaaact tcggcgatat gtggccaaga   1020
agctgaaaga acaagcaaag gcactggaca tcagcctcag ctctggagag gaagatgaag   1080
gtgatgagga ggactcaaca gctggaacca caaagcagcc ctctaaggag gaggaggaag   1140
aggaggagga ggaacaactg aaccagacct tggcagaaat gaaggcccag gaggtggcgg   1200
aattgaagag gaagaaaaag aagctgttgc gtgagcagag aaagcagcgg gagcgtgtgg   1260
agctgaagat ggatctgcct ggggtttcca ttgcagacga gggggagact ggcatgttct   1320
ccttgtgcac catccggggt caccagttat tagaggaagt aacacaaggg gatatgagtg   1380
cagcagacac atttctgtcc gatctgccaa gggatgatat ctatgtgtca gatgttgagg   1440
acgacggtga tgacacatct ctggatagtg acctggatcc agaggagctg gcaggagtca   1500
ggggacatca gggtctaagg gaccaaaagc gtatgcgact tactgaagtg caagatgata   1560
aagaggagga ggaggaggag aatccactgc tggtaccact ggaggaaaag gcagtactgc   1620
aggaagaaca agccaacctg tggttctcaa agggcagctt tgctgggatc gaggacgatg   1680
ccgatgaggc cctggagatc agtcaggccc agctgttatt tgagaaccgg cggaagggac   1740
ggcagcagca gcagaagcag cagctgccac agacacccccc ttcctgtttg aagactgaga   1800
taatgtctcc cctgtaccaa gatgaagccc ctaagggaac agaggcttct tcggggacag   1860
aagctgccac tggccttgaa ggggaagaaa aggatggcat ctcagacagt gatagcagta   1920
ctagcagtga ggaagaagag agctgggaac ccctccgtgg taagaagcga agccgtgggc   1980
ctaagtcaga tgatgacggg tttgagatag tgcctattga ggacccagcg aaacatcgga   2040
tactggaccc cgaaggcctt gctctaggtg ctgttattgc ctcttccaaa aaggccaaga   2100
gagacctcat agataactcc ttcaaccggt acacatttaa tgaggatgag ggggagcttc   2160
cggagtggtt tgtgcaagag gaaaagcagc accggatacg acagttgcct gttggtaaga   2220
aggaggtgga gcattaccgg aaacgctggc gggaaatcaa tgcacgtccc atcaagaagg   2280
tggctgaggc taaggctaga aagaaaagga ggatgctgaa gaggctggag cagaccagga   2340
agaaggcaga agccgtggtg aacacagtgg acatctcaga acgagagaaa gtggcacagc   2400
tgcgaagtct ctacaagaag gctgggcttg gcaaggagaa acgccatgtc acctacgttg   2460
tagccaaaaa aggtgtgggc cgcaaagtgc gccggccagc tggagtcaga ggtcatttca   2520
aggtggtgga ctcaaggatg aagaaggacc aaagagcaca gcaacgtaag gaacaaaaga   2580
```

4451

```
aaaaacacaa acggaagtaa gcagagctgc caggctccca ggagagcatg gggactagga    2640
ggaagggtgt ggcatggctc agtctggccc ccttgattac cggcctagcc cctgctcaca    2700
tcacagctgt ctgaagaaca gtgaggtgga gtgcctagaa ctcccgtggt ggtcctgagc    2760
agagaggagg atgtcctcct gcctgcctga aggtctccca tgaaaacact gctgaactgt    2820
gttgacactc atgacccttt ttttaaaccg ttaaagggaa gttcggtgtt ggagcgatac    2880
tcaatgtagt cagtctacac ctggacgtgt gggccactta agccctcccc accccccatcc   2940
tattcctaaa taaaaccagg ataatggaaa aaaaaaa                              2977
```

<210> 5915
<211> 1012
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (235)...(818)
<223> similar to gi297547 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5915
```
cgacccacgc gtccgctcta cttatccttc caatgatcac tgccaagttc tctttagcca      60
tgcaaatggt ttctcttgac gattgaccca tgaacacttg aaaggaaggt gtattctgcc     120
actttaaaat gaagtgcttt ataaacaaca aagagctcaa gttagctaaa actggataca     180
ggcgcagatt tattatatga atatattacg tagtggcaaa gtccaggctt ttaagacatg     240
attgggaagg tgtttatttt tcctaaagaa tctaatagtg ctcacgtgag cttgatcaca     300
cagctggaga aatctacaga acttcactgc gtgtcttcat gcttataccg acctctccca     360
tggctatcgc ctcttctcct acagcatcca gaccaagagc aatgagatgg tcatttttaa     420
gtctcaaatt ggggagtaca atcttatcat tgggggtgac aaggttttct tcaaggtctg     480
tgagaatttc cccaccctgg tgcacatcta tgccagctgg gagtcctcct caggcattgc     540
tgagttctgg gtcagtgaga agccttaggt gaggatgggg ctaaggcagg gtttctctgt     600
gggagcttac cccaagattg ccctgggtag cagcagggtt cctatggagg caagtttggt     660
aagagccagt ccattgtggg agagattgga gatgtgtaca tgtgggactc tgtgctgtcc     720
ccagaagaaa tctggtttgt gtatcaaggt atctacatca aacccaatat tctggactgg     780
cgggcattga actatacaat gcaaggttat gtggtcaccc agtcccataa atagagttga     840
agttctgctt caacaggaca aagttactgg gaaggaaatc cccaacatga aagaccagct     900
ctgaagacaa ttctacttca tgccttatgt ctatttctct gttttctctg aatttcctat     960
ctattgaact gcttaattta caataaaagt acaatgcctt ctaaaaaaaa aa            1012
```

<210> 5916
<211> 1832
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (294)...(1441)

<400> 5916
```
caagatgctc agctagcaga gctgacttcc tgccacaaag tagtgtggcc tcacagtcgt     60
cttctgaagg caagctggct acaaaaggtg acagctcgga gagggagaga agggagcaaa    120
atttacctgc acgtcccagc agggctcctg tgagtatttg tggtggtggg gaaaacacct    180
caaagagtgc agaggaacct gtggtcaggc ccaaaatcag aaacctggca agtccaaact    240
gcgtgaaacc aaaaattttt tttgatactg atgatgatga cgatatgcca cacagtactt    300
ccaggtggag ggataccgcc aatgacaatg agggccactc ggatggcctg gcaagaagag    360
ggagaggcga gagttcaagt ggctatcccg agccaaagta ccctgaagac aaacgggaag    420
cgaggagtga ccaagtgaaa ccagaaaagg tgccgagacg acgacgcacc atggccgacc    480
ctgacttctg gacgcacagt gatgattact acaaatactg cgacgaagac tctgacagtg    540
acaaagagtg gattgctgct ctgcgtcgga aatatcgaag ccgagagcaa accctgtcct    600
ccagtggcga aagctgggag actctgccgg ggaaagaaga gcgggaacct ccacaggcta    660
aggtgagtgc cagcactggc accagccctg gccccggtgc tagtgccagt gccgggggctg    720
gcgccggggc cagtgctggc agcaatggca gcaattacct tgaagaagtt cgagaaccat    780
ctcttcagga agagcaggca tccctggaag aaggagaaat tccttggctc cagtaccatg    840
agaatgacag tagcagtgag ggggataatg attctggtca cgagttgatg caacctgggg    900
tattcatgct ggatggaaac aacaaccttg aagatgactc cagtgtgagc gaagacctag    960
aagtggattg gagcctcttt gatggatttg cagatgggtt aggagtggct gaagccattt   1020
cctatgtgga ccctcagttc ctcacctaca tggcacttga agaacgcctg gcccaggcaa   1080
tggaaactgc ccttgcgcac ttggagtctc tcgcagtgga tgtagaggtg gccaatccac   1140
cagcaagcaa ggagagcatt gacgctcttc ccgagatcct ggtcactgaa gatcatggcg   1200
cagttggtca ggagatgtgc tgccccatct gctgtagcga atatgtgaag ggggaggtgg   1260
caactgagct gccgtgccac cactatttcc acaagccgtg tgtgtccatc tggcttcaga   1320
agtcaggcac ctgccccgtg tgccgctgca tgttccctcc cccactctaa agaccaaggc   1380
cgtttactcc tggtctgatt attttcccca tctgaaatcc acaatactgc aggagccctc   1440
ttgaaattaa caatggaaat aaaaccaatc agtcagttag cctaaaccta ttgattcctc   1500
gtgattattt ccaatgtgaa aacagttgtg tatgattgca ttaaaaatca tatcatcttt   1560
tagaggttag aaaagggaaa actaaacttt ctaaatgcta cttgagattg cagtaagaag   1620
atacgttttc taacctgaaa gttaaatcgc atttgttttc ttcagtagaa tgggaatgtg   1680
ttgctgttac ttgtaatgtc aagtttatct gttaaatatg tccaaaaggc aaaatcattt   1740
ttgttgcatg ttatgggtcg atgttcctgt aattgcagtg ccgtaaaagc ttattaaagt   1800
tgttcttttg gttttacatg gtaaaaaaaa aa                                 1832
```


<210> 5917
<211> 1286
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (802)...(1132)

```
        <400> 5917
tttttttttt ttaaccaaat atgaaaatgt gttttatttc tcagtacaaa gccagatact        60
gtaaggctat gaaaaactga ctagccagag gccagaaagg acaaaaagaa gactatctct       120
ggcctggtgc cctgtgatct ggcgtggtgt cacaggaggt ctggggacag cagcaaagac       180
ctggaccggt ggaggtggat gagggaagcg atctgccagc ccttccagcc tcccgcggct       240
ggggcctgag gatcctgcct gcctttgggg gccactggtt gcctggcctg gctggttcca       300
ggaatgaact gggagaggac aggaggtgca gggagggggc gggggtggga ggcgtgaccc       360
tttttgcacg ggaagctctg ttttcattcc gtgccacagg tgagtgtgca gggctagagt       420
tgagaatgaa actagggtgc tgttgccccc aaaggtacct tcagtccctc taccacatcc       480
cagttagaaa gtcttgagcc cttggacagg cagacatggg cctgggactt aaggctgtag       540
gaggtgaggc tgtagtgaca ggggtgggag gtgaggccgt agtgacaggg gtgggaggtg       600
aggctgtagt gacgggtatg gggcggagct gagaggaatg tgtgcggcaa cagacgtgag       660
ggtgtttctc caaggagttg tggatcctct tcagtgtcag gggagcgtgg gcatgtgtga       720
gggctcaggc ctcgccctcc tctccactgt catgcacgct ggcctgtctc accaccttcc       780
ggaacctggg cgtagaggaa atgcagggct ctccctgccc ctgcccctgc ccctgctcct       840
gctcctggaa ggcctgggtc cggttggcca ccacggcact gccctggagg gtaaccactg       900
actggcggga cttcagggca ggctgaggcc ccctgtccac ctgctggcct cccttggtcc       960
ttgcaagctg tgggaagggc tgcagaggct cttcatgtga agactcgtgg gaagagaaga      1020
cctctggcat gtcactggtc tctgaggtgc tctccagctc caaggagggc tccagaagac      1080
tgatggacct catgacccct cggaggttta tacgtggccg tggcccaggc tcttctttcg      1140
gggctgcctg gctctcttcc atgcctacaa ccttctcctc cccaccaccc tcaggttctg      1200
gcggaagagg tgggaatggt gtagagactt caggggctgg gtgctcctct ggggagaccc      1260
cacccacgaa ttccaccaca ctggac                                          1286


        <210> 5918
        <211> 2073
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (321)...(1127)
        <223> similar to gi2690100 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters



        <400> 5918
aaatgatgga agaaattgaa aatgcaatta acacttttaa agaagagcag aggttgatat        60
atgaagagct aattaaagaa gagaagacaa ctaataatga gttgagtgcc atatcaagaa       120
aaattgacac atgggctttg ggtaattcag aaacagagaa agctttcaga gcaatctcaa       180
gcaaagttcc tgtagacaaa gtaacaccaa gtactcttcc agaagaggta ctagattttg       240
aaaaattcct tcagcaaaca ggagggcgac aaggtgcctg ggatgattat gatcaccaga       300
actttgtaaa ggtgagaaac aaacataaag ggaagccaac atttatggaa gaagttctag       360
aacaccttcc tggaaaaaca caagatgaag ttcaacagca tgaaaaatgg tatcaaaagt       420
ttctggctct agaagaaaga aaaaaagagt caattcagat ttggaaaact aaaaagcagc       480
aaaaaaggga ggaaattttc aagttaaagg aaaaggcaga caacacacct gtgctttttc       540
ataataaaca agaggataat caaaagcaaa agaggaaca aagaaagaaa cagaaattgg        600
cagttgaagc ttggaagaaa cagaaaagta tagaaatgtc aatgaaatgt gcttcccagt       660
taaaagaaga agaagagaaa gagaaaaaac atcagaaaga acgccagcgc cagtttaagt       720
taaaattact actagaaagt tatacccagc agaagaaaga acaggaagaa tttttgaggc       780
ttgaaaagga gataagggaa aaggcagaaa aggcagaaaa aaggaaaaat gctgctgatg       840
```

```
aaatttccag atttcaagaa agagatttac ataaacttga actgaaaatt ctagatagac    900
aggcaaagga agatgaaaag tcacaaaaac aaagaagact ggcaaaatta aaagaaaagg    960
ttgaaaacaa tgttagtaga gatccctcta ggctttacaa acccaccaaa ggttgggaag   1020
aacgaaccaa aaagatagga ccaacaggct ctgggccact tctacatatc ccacataggg   1080
ctattccaac ctggagacaa ggaatacaga gaagagtatg agataatcaa attgctactc   1140
agttgataag aatgttaaca tactaagtta taccagggag agagtgacta accacattct   1200
ttaaatatca atagcttagt cagattgatt attgtgctat attgtgaatt gagaggtatt   1260
aagtttcatg aggctttgtc attagtattc ctgcttctac caagaaggta tttaatatat   1320
gtgttggcct attattgatg taaaagttat ttaaataagt taatgttaga aacattattc   1380
aatttaaata ctgaaaacat ttcaaagaga ttttgttttt gttatagcat agcaaagtaa   1440
attggaacaa tcattccaat gacatttttt taaaccaaaa tttttgtaac ttttataact   1500
tggagttaag ttagcttgag taacaaaaag gtaaagtggt ttttgtttag agttaacgaa   1560
atgttagtac ttttttctaat gtttaaccaa attggcagtt tgtcagttat gacattttg   1620
tgtaataaat attttgtatt tgtttgaagc atgctttgtt ttatatagag aatatttatt   1680
ttaaaaatat gtctctcata taccctatta attgtattat tgatataatc ttttttggttt   1740
ccttcagcaa ttccaaattt tccttcagcc tttctggatt tcacagattt ataaaatctt   1800
tgtgtctttc acatcttcct ggctaatgca gtttttctttt ctgcttctgt ttgcctcaaa   1860
ataggaaaat tctttgttct gaaacatcat ctgaaataag ccagctttaa aatactgtga   1920
tttctcttga tggcacttaa aatgtttttag gtggggcatg gtggctcatg cttgtaatcc   1980
cagcactttc agaggtcaag gtaggagaat tgaggcctgg agtttgacac tagcctgggc   2040
aacacaggga gaccctgtct ctacagaaaa aaa                                2073
```

```
        <400> 5919
acctagctgt gtccccacaa ggcggaaagg ggcaaacaag ttccctcagg ccactcttac     60
ggggcattaa tccctgactt aatcacctcc taaaaagggt gtcctcttga cactatcaca    120
ttatggatta gggttcaacc tatgaattac gtaggcacag acacattcag atcctggcac    180
tacatgtagg atattcagtt agcccctggt tgaggggcgt ttgtgttgct actggttttc    240
tgctattaca cataacccctt taatgaattg ccttacgcat gcatgttttt gagtgttcgt    300
cagtctctct ttggaataga ctcccagaag tggaattgct gagtcaaagg gtaaatgcat    360
acggaatttt gattgatacg gccacttccc atccatgggg gttttactgt tttatattcc    420
cgccagcagt gaatgagtac ccttttttcc ccaacagagt attttgtcaa atttttcaat    480
ttttgcaggc ttatagatga gaagtgatat tatctcactg tacttctaat tgcatttctc    540
tcttttcatg tggttaagag ccatttgtat tttctgtgaa ctatttaacc tattttttcta    600
tagaattttt ggtctttttc aaccatttttc agctctttgt atactaggaa tattaaccct    660
ttgtaatgtt tgttgtacat attttttccca atttgtcatt tatcttttca cttggtttct    720
gcaaagattt actttatttc tgtgttaaat gtgttgattt tttcttattg cttctggatt    780
ttagagtcat aggaaggttt tcttcattcc cagcttttac aggaatttat cgtgtttttt    840
tcaggcagac ttttatagtt tctggtttta cat                                873
```

<210> 5920
<211> 1470
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (668)...(1281)
<223> similar to gi53797 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5920
tttttttttt ttctggggggc tgcttttatg gggacgacct gacagagggc atggtccgta   60
caaaaccggg aacaatacat acatatatat attatataca gagatgcggc cctcccgacg   120
gctgggcagg ggtggccgct ggcccaagca gcccgaagcg gccccgccca cccggttccg   180
cccctccat ctgccggggt gaagtgcgcg agcccaggac tgagacagcc agctccttca   240
ggggatggggg gcacatctgg ggataggaag gggtggggac aagaaatact gatcgaagtc   300
atggtctatt tacaggggac aagaagccaa aacggatggg atgggtggtc tgtttttaaa   360
aaatgaacaa aaacccagtt agggcagggg catgaagtgg caaaatgaga tggattttga   420
aaggggaggg gacctggggg aggtggtctc acctcccttg gtccaagccc caatttgggg   480
ttaaagtggg gaaacagagt cgatttcact tagaaggcag gctgccagca gggcagccct   540
ggtctccaaa aagatgagta gtagtaaaat tttgccctcc agtcaaaaca ttggaaaacc   600
agtaggggt gggggcgagg ctgactccct gcaatgtcag taggcttcca ggcatcgccc   660
tgggctgggc agacagggca gcacaggata ggacctgact ctccagggag aaatgttccc   720
cttgcctaag accagggtcg ctgtagccag accccctttc ctccctggca ttcccaggct   780
tgaccaggaa acctggaccc cagagaggcc acataacagt tccaagacga ggttatggct   840
atttggcacc tggaagaggg gaggcacaag gagaaattga gggctgctgc cccaggcaat   900
ggggagctgg ggaccaggtg tcctgaactc tcccttttttc ccactctcac tcccccttttt   960
cccgaaggac acatgagaaa tcagtgcagg gccagggcca ggcccagcct ccgggctctg   1020
gggtggactc tatccctccc aggacaggga acagggatgg gggaggtgtt gaggcaacgc   1080
ccccacccc caggcgggag ggtcagaatg caacagagac ggcacaatga tgggggggaga   1140
gggaagggcc gagaaggtag aatctcaagt caagaggccc aggggccacc caggtgcccc   1200
atgggcaggg agcagccccc agttggcaga tgctgggaga gccccagccc cgttccagtc   1260
cagagacaaa agctggagtg tgtaaagtct ggcagtttga tctgcaggtg cttgtgtccg   1320
tcgaccacca ggccagccct cggcagccct cggcctctgt gcctcagccc catggggcaa   1380
gaaagaggct gcccttctag ccacctctgt ctgcccaggc catcttaagg gggcctgtat   1440
atagccggcg ctggtcgacc gggaatccgg   1470

<210> 5921
<211> 3595
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (287)...(2913)

       <400> 5921

```
gggcagtgtc tcgtttgcag tcggcgcttt aggggaactg tcttcctccg caggcgcgag    60
gctgggtaca gggtctattg tctgtggttg actccgtact ttggtctgag gccttcggga   120
gctttcccga ggcagttagc agaagccgca gcggccgccc ccgcccgtct cctctgtccc   180
tgggcccggg agggaccaac ttggcgtcac gcccctcagc ggtcgccact ctcttctctg   240
ttgttgggtc cgcatcgtat tcccggaatc agacggtgcc ccatagatgg ccagctttcc   300
cccgagggtc aacgagaaag agatcgtgag attacgtact ataggtgaac ttttagctcc   360
tgcagctcct tttgacaaga aatgtggtcg tgaaaattgg actgttgctt ttgctccaga   420
tggttcatac tttgcttggt cacaaggaca tcgcacagta aagcttgttc cgtggtccca   480
gtgccttcag aactttctct tgcatggcac caagaatgtt accaattcaa gcagtttaag   540
attgccaaga caaaatagtg atggtggtca gaaaaataag cctcgtgaac atattataga   600
ctgtggagat atagtctgga gtcttgcttt tgggtcatca gttccagaaa aacagagtcg   660
ctgtgtaaat atagaatggc atcgcttcag atttggacaa gatcagctac ttcttgctac   720
agggttgaac agtgggcgta tcaaaatatg ggatgtatat acaggaaaac tcctccttaa   780
cttggtagat catactggag tggtcagaga tttaactttt gctccagatg gaagcttgat   840
cctggtgtca gcttcaagag acaaaactct cagagtatgg gacctgagag atgatggaaa   900
ccatgatgaa agtattgagg ggtcatcaga attgggtgta ccagctgtgc attctctcct   960
gactcttcta tgctgtgttc agtcggagcc agtaaagcag tggtggcagc aatattggtg  1020
tgattgaggt tatgctggca ccactcgcac acaggcgcca caatggtgtt aagctgggca  1080
gaaagagtgg catctctggc taccgggctg ggggcgacct ttaccatagg atgaagtaac  1140
cttgcattcg tgctgcaagg tgtactgtac gtacacaggt gctggtcgat gtccactttc  1200
tgcttttctt tctttctttt tttctttttt aaagtaattt cccccacagt aaaataccac  1260
tgactcctga gtaaattgat tttccagttt tatggaattg ggagtctgac aagtgaaacc  1320
aatttaatgt aaagtatttg gctttcaaat ggtttctctg tgctattttt tggaattctt  1380
tcagattcca gagatatctt acgtctttga ttcaatttaa aatttgtact tattttcttt  1440
tagaaataat gtattgtgtc tgtgcagaaa aaaaaaaaac caaaaaggat tgctttactc  1500
caagaggaga gattgtctta ggataaacct ccaagctcac atttaatata acagactgaa  1560
gtaaacatta gaatcctgtt tagagctatt ctgcacagtt aactactgat ctttagaatc  1620
taaaattgta tatgaactta ttcttaaata attgacccgt tttatattca aatgacttat  1680
gatcgtggtt agtttgggaa aaataagatg gttaaatttt gatttattga aatgtaattg  1740
tattattttc ataaaatagc attttcattt tgtaatgtgg tttaacatcc ttgttgtttg  1800
ccaaagaaat ttcatttggc tgtgaatatt ctatttgctt gcagtatctg tttctcttcc  1860
taggctcaag ttggtgaccc aagcctattg taaacaagtg attatctcaa agggagatgc  1920
caatggagta acaatttgtt aaccttacgt tttctgtctg tatatttttt taaaaatctg  1980
gtagtttctg gaaaaaaaag agaaggggt ttgtagtact taaccctatt tatttccgta  2040
tattttagtt aattagtttt tggaataaat ggatttcagt atagctttgt ggttaaattg  2100
cattgccttt attttatgtt taggcttatt tttaaattaa catttaacag aaacatttga  2160
aatagaattt gcatgtctgc cttaattaac ttaaagactg attttaatct gactatgaca  2220
ctgagcatat tctttaaatt actcataatt tataatgctt aatataatct taattaaatt  2280
tagcagtttt agtataagat gtgccatttt gtcctctgta tgtctgaatg aagctataac  2340
atttgccttt ttattgcagg ttttcctttg gaatatggat aaatacacca tgatacggaa  2400
actagaagga catcaccatg atgtggtagc ttgtgacttt tctcctgatg gagcattact  2460
ggctactgca tcttatgata ctcgagtata tatctgggat ccacataatg gagacattct  2520
gatggaattt gggcacctgt ttcccccacc tactccaata tttgctggag gagcaaatga  2580
ccggtgggta cgatctgtat cttttagcca tgatggactg catgttgcaa gccttgctga  2640
tgataaaatg gtgaggttct ggagaattga tgaggattat ccagtgcaag ttgcaccttt  2700
gagcaatggt ctttgctgtg ccttctctac tgatggcagt gttttagctg ctgggacaca  2760
tgacggaagt gtgtattttt gggccactcc acggcaggtc cctagcctgc aacatttatg  2820
tcgcatgtca atccgaagag tgatgcccac ccaagaagtt caggagctgc cgattccttc  2880
caagcttttg gagtttctct cgtatcgtat ttagaagatt ctgccttccc tagtagtagg  2940
gactgacaga atacacttaa cacaaacctc aagctttact gacttcaatt atctgttttt  3000
```

```
aaagacgtag aagatttatt taatttgata tgttcttgta ctgcattttg atcagttgag    3060
cttttaaaat attatttata gacaatagaa gtatttctga acatatcaaa tataaatttt    3120
tttaaagatc taactgtgaa aacatacata cctgtacata tttagatata agctgctata    3180
tgttgaatgg acccttttgc ttttctgatt tttagttctg acatgtatat attgcttcag    3240
tagagccaca atatgtatct ttgctgtaaa gtgcaaggaa attttaaatt ctgggacact    3300
gagttagatg gtaaatactg acttacgaaa gttgaattgg gtgaggcggg caaatcacct    3360
gaggtcagca gtttgagact agcctggcaa acatgatgaa accctgtctc tactaaaaat    3420
acaaaaaaaa aaaaaattac ccaggcgggg ggggcacac ctgtagtcct agctacttgg     3480
gaggctgagg caggaaaatt gcttgaaccc aggaggggga ggttgcagta agccaagatc    3540
acaccactgc actccaacct ggacaacaga gcgagactcc atctcaaaaa aaaaa        3595
```

<210> 5922
<211> 1011
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (420)...(65)
<223> similar to gi168459 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5922
```
cgggctggaa cagagcagcc ggcctctgtc ctaagactgg ccacgctgag acggacaggc      60
agcaggggag cgaccggagc tggggcgctg gatgtgggga aagggagaga ggtgttaggg     120
aggccccag tctcgggccc aggttacaag gtcttaccct ggggtgggaa cccaggaggt      180
ggagtggctg ggggcacag ctgagaagtt caggaagatg gaggatgagg attcccaggt      240
tcctccctgt ccatgtcagg gtgaggggtg caggagcaca gaggccatgc tctgccatgg     300
ctggggactt ccttgtgaat actgcagccc tagggctgca aggggacacc acgcacagag     360
acacggcagg ccccgtgttg gccggggggtg ggggtgaggg cagaaccagc cgagggacgc    420
tgagtcagac cgcttgccca ctgctctggt gcaggacct ggctgcaggt gctggagacc      480
atcggtgtgc tggcggtcat tgccaatggg atggtcattg ccttcacatc tgagttcatc     540
ccccgagtgg tctacaagta ccgctatagc ccatgcctga agaaggcaa ctctactgtc      600
gactgcctca agggctacgt caaccacagc ctgtccgtct tccacaccaa ggacttccag     660
gaccctgatg ggattgaggg ctcagaaaac gtgactctgt gcaggtttgg aactccccat     720
cccccaagaa tgccctctga actcctgacc cctgacctca ggtacttcct taccccagat    780
acagggacta ccgcaatccc cccgattaca acttctccga gcagttctgg ttcctcctgg     840
ccatccgcct ggccttcgtc atcctctttg agcacgtggc cttgtgcatc aagctcatcg     900
ccgcctggtt cgtgcccgac atccctcagt cggtgaagaa caaggttctg gaggtgaagt     960
accagaggct gcgtgagaag atgtggcatg gaaggcacag gcatgcgttg g            1011
```

<210> 5923
<211> 911
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> (1)...(912)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (336)...(684)
<223> similar to gi5105617 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5923
tttccggagc ccgccccctc cggggagnag gaggaggggc ggcgggggaa gggagggcgg   60
gtggagggt cgggaggaac ggggggcggg aaagatccgc cgggccgccg acacggcggc   120
acccgccgcc gggttgaatc ctccgggcgg actgcgcgga ccccacccgt ttacctctta   180
acggtttcac gccctcttga actctctctt caaagttctt ttcaacttttc ccttacggta   240
cttgttgact atcggtctcg tgccggtatt tagccttaga tggagtttac cacccgcttt   300
gggctgcatt cccaagcaac ccgactccgg gaagacccgg gcccggcgcg ccggggggccg   360
ctaccggcct cacaccgtcc acgggctggg cctcgatcag aaggacttgg gccccccacg   420
agcggcgccg gggagcgggt cttccgtacg ccacatgtcc cgcgccccgc cgcggggcgg   480
ggattcggcg ctgggctctt ccctgttcac tcgccgttac tgagggaatc ctggttagtt   540
tcttttcctc cgctgactaa tatgcttaaa ttcagcgggt cgccacgtct gctcgtgccg   600
aattcggcac gaactgtgat gcccttagat gtccggggct gcacgcgcgc tacactgact   660
ggctcagcgt gtgcctaccc tacgccggca ggcgcgggta acccgttgaa ccccattcgt   720
gatggggatc ggggattgca attattcccc atgaacgagg aattcccagt aagtgcgggt   780
cataagcttg cgttgattaa ggtgcatgac accacacccg gctaattttt gtattttag   840
tagagacagg gtttcaccat gttggccagg atggtctaga tctcttgacc tcgtgatccg   900
ccttcctcgg c   911

<210> 5924
<211> 1041
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (53)...(40)
<223> similar to gi1710367 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5924
tggggcaagg atttcatgag catcctcctc taaacgcgtg tcaagacaaa agatgcttca   60
gctttggaaa cttgttctcc tgtgcggcgt gctcactggg acctcagagt ctcttcttga   120
caatcttggc aatgacctaa gcaatgtcgt ggataagctg gaacctgttc ttcacgaggg   180
acttgagaca gttgacaata ctcttaaagg catccttgag aaactgaagg tcgacctagg   240
agtgcttcag aaatccagtg cttggcaact ggccaagcag aaggcccagg aagctgagaa   300
attgctgaac aatgtcattt ctaagctgct tccaactaac acggacattt ttgggttgaa   360

```
aatcagcaac  tccctcatcc  tggatgtcaa  agctgaaccg  atcgatgatg  gcaaaggcct      420
taacctgagc  ttccctgtca  ccgcgaatgt  cactgaggcc  gggcccatca  ttgaccagat      480
tatcaacact  gagagcctcc  ttggacctcc  tgaccgcagt  cacaattgaa  actgatcccc      540
agacacacca  tcctgttgcc  ggactgggag  aatgcgccag  agacccaacc  agcatctcac      600
tttgcttgct  ggacaaacac  agccaaatca  tcaacaagtt  cgtgaatagc  gtgatcaaca      660
cgctgaaaag  cactgtatcc  tccctgctgc  agaaggagat  atgtccactg  atccgcatct      720
tcatccactc  cctggatgtg  aatgtcattc  agcaggtcgt  cgataatcct  cagcacaaaa      780
cccagctgca  aaccctcatc  tgaagaggac  gaatgaggag  gaccactgtg  gtgcatgctg      840
attggttccc  agtggcttgc  cccaccccct  tatagcatct  ccctccagga  agctgctgcc      900
accacctaac  cagcgtgaaa  gcctgagtcc  caccagaagg  accttcccag  atacccttc      960
tcctcacagt  cagaacagca  gcctctacac  atgttgtcct  gcccctggca  ataaaggccc     1020
atttctgcac  caaaaaaaaa  a                                                  1041
```

<210> 5925
<211> 2257
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1983)...(483)
<223> similar to gi5532485 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
<400> 5925
tttttttttt  ttaaatattt  gaattttatt  ttcgttttgt  tttacaactg  tggaacactc      60
agataatcta  taccatgtta  gtattcctac  aagagaaaac  gggtaaaaca  gtatttagaa      120
agcagtaccc  agtaaaacgt  tattacaagc  cattagatgt  gtttaaaaag  ttgatacctа      180
atttataacc  ctgtaattgg  taaatggtgc  atgacttaaa  tgttaaaatc  ctgtatttta      240
aggatagtct  tctgcagtta  caaatcccat  atacccagat  ttcctgtagg  cttcacaaat      300
cggaggggta  catagaatgt  gcaagagtca  aaggataaat  aatattataa  atatatatta      360
actatattac  ctaattaaaa  ccataatctg  ttaatacagc  tatggattaa  tttcaaaaaa      420
atgtaatcaa  atatattact  aatggtgtag  ttggctgttt  tccaatgttg  gtaaagttat      480
taaagttctt  cactttcata  gagtccagat  tgagctgcca  aacgctgaaa  ttctccttct      540
gggttaaaag  cttgtttttac  attcaaacct  ttcccattaa  gtgctaaata  tttgctgaat      600
gttggtcgaa  cccgtaactg  cttaggagct  ggaagagttt  ggtttggacg  tgccgtaacg      660
tctaatcttg  tgttacatgt  agtcactcca  gcttcattaa  ctgctgacac  agtataccac      720
ccagcatctt  tcttgtttac  atcttttatc  agtaaagtaa  ctcttccagt  gttatcttga      780
tataagctta  ttcggtcagt  gttgaattgt  accatttcat  tatttctttt  ccagaaaagc      840
tttggtggag  gtatagccga  gatctggcat  tctagtttca  ctgaatctcc  ctctaaaact      900
tttttgctct  gtggtttgta  gataaacatt  ggtgctcttt  tatgttcttt  tgcaaggaca      960
tccagctgca  cagtgaaggt  ggcttctcct  gctctattct  tggcaacaca  tgcataagcc     1020
cctgcatctg  aagctctgac  tacttcaaag  atgagtgaat  gaagaccctt  ctcagacact     1080
atcattttgt  gcaaatcatc  tgattgaact  gttcttccat  ttagatacca  tgacacatca     1140
ggagctggca  gtccactcac  tttgaagtcc  attctgcaga  atcttccttc  atcaatcgac     1200
atgttctctg  gcacttgaat  gaaacgtggt  gggtaaaatt  tctcctggat  tgcatcctga     1260
tcattcacat  ctccccttga  ggttgatcta  cttcttactt  gtgatgtagg  aacttgcagt     1320
cgcgcatgtt  ctgagttgtg  ttgctgcgag  tcttgtgcac  cactgtcatc  ctgagcttga     1380
aacacagcag  ctgcattctg  tggtcctagc  aatctgcgag  ccatcttctc  ttcatatgtt     1440
agacgttgat  ttccattatg  aagaagggtg  tccttgcatt  tcagctttct  ttccaaatct     1500
```
```

                              4460
```

```
tgaatcaaag cttcttttga tccttgtatt tcatgatcag gagttcttgg tatgggctta  1560
accatttgca gtttgggatg gctttgccat ttataggtt ggcccagctg aggactgttg   1620
atagttggaa tccatagcgg aagggatttt actgctattg taatcaggct gtgatggtaa   1680
tatggagctg aggaagctgg ctggggactg gttataggtg gttgtaaccc tttggcctgg   1740
gttggagcca gcatgctgct ggggagaagc agggaaagca gaggaggaca tggtgatgtg   1800
agagctcagt gttgaggagg cagaaaatct ttgctctgta cactggcggg gctggatgat   1860
aatggaagac tgtttggtct ggctagagaa gctggaggtt tctggtccag gaggctgcaa   1920
tctggagcca catgggtttt gggactggat gaagtgtttt ggacgttcgt agttaaacat   1980
gcttagttgg tatatggaag atgaaggcaa attattacta taatgatttg ttcctggaag   2040
ggtggggccc tgaatttggg gccacaagcc tggaattacg gaaggttgta aggaatcaga   2100
agcaaccttg gtctgctctt ccttgttgag atcctgagaa tactgtgctc ctggctttgg   2160
tagagtgacc ttctcttgaa gaatattgtt cccgtagttc cagagggtgc cagctgggtt   2220
taacccacta ttgaagggaa ggaagaggca tctcctt                           2257
```

<210> 5926
<211> 1297
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (179)...(753)
<223> similar to gi1841555 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5926
```
cggacgcgtg ggcaagccag gaaggccctg gagaatccgg tgtgcccct  cctccggcag    60
agcttgggcc tgggctcacg aggaaggggc tgcagttctc caaggattcc cgcctgctcc   120
cagaccccg ggagtcgtag gaacccgttc ctggacgctg acgtcggctt tcagggatcc    180
ctcgccggac gccgcggagg gacagagcct gggaagccgt cgccccgccc cgtccccgcc   240
cccgcgcgca gtgggcccgg ggcgctgaga cccgcgtaga gcaaagcgca aggtcccagc   300
gcccccttgga tcctcggtgg cagggtccgg gcaagtgtca ttgcgaggt  tcaggaagcc   360
ccggcctgtg atcgtgagcg gaaacccctc ctggagtttc cccaaagcca tggacagccc   420
tagtcttcgt gagcttcaac agcctctgct ggagggcaca gaatgtgaga cccctgccca   480
gaagcctggc aggcatgagc tggggtcccc cttaagagag atagcctttg ccgagtccct   540
gaggggtttg cagttcctgt caccgcctct tccctccgtg agcgctggcc tgggggaacc   600
aaggcccct  gatgttgagg acatgtcatc cagtgacagt gactcggact gggatggagg   660
cagccgtctt tcaccatttc taccccacga ccacctcggc ttggctgtct tctccatgct   720
gtgttgtttc tggcccgttg gcatcgctgc cttctgtcta gcccagaagc atccccagtg   780
cctgacctat agtaggtgct acgtatctgc ttttggaata catgcatgaa tgaatgaatg   840
ggtatgttgg gtgggggagg gaccagggga agggtctggg actgagggga tgcctgggtc   900
actgctgccc actgcctcta cagaccaaca aggcttgggc caaggggac  atccaggggg   960
caggggccgc ctcccgccgt gccttcctgc tgggggtcct cgccgtcggg ctgggcgtgt  1020
gcacgtatgc ggctgccctg gtgaccctgg ccgcctacct tgcctcccga gacccgccct  1080
agttgccct  acagccctca ctgtgaaccc tgaggccggc agcccagcaa atctgtgggc  1140
agagagtgga gaatcttggt ggatgaggct gcggcggcgg caggagcatc tagaaacggg  1200
agcgagctgg actggaaccc ttcccttcc  tggccaccgc tcttcgggcg gcagcaacct  1260
gagattaaac accagacacc cttgcagcca aaaaaaa                           1297
```
```

```
<210> 5927
<211> 2548
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (170)...(2039)
<223> similar to gi402649 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


    <400> 5927
agccgcaaac ccagcggagg gcgggaagaa ggaggaggcc tctagggtgg tcggggggact      60
gggggcccccg ccggcagagg tccctcggcc tcctgactga ctgactgcgg ccgcctccgg     120
caaggtacgc tagggagctg cctgacggga aggtgcgggg agcggacgca tggcctccgg     180
tgctttataa cccgtatata gagataattg aacaacccag gcagagggga atgcgtttta     240
gatacaaatg tgaagggcga tcagcaggca gcattccagg ggagcacagc acagacaaca     300
accgaacata cccttctatc cagattatga actattatgg aaaaggaaaa gttgagaatt     360
acattagtaa caaaagaatg acccatataa acctcatcct catgatttag ttggaaaaga     420
ctgcagagac cggctactat gaagcagaat ttggacaaga accgcagacc ttttgttttt     480
ccaaaatttt gggtattcga tgtgtgaaga aaaaagaagt aaaagaggct gataattaca     540
aggaataaag gcaggaatca atccattcga tgtcccctga aaacagctga atgatattga     600
agattgtgac ctcgatgtgg tgagactgtg gtttcgagtt tttctccctg atggacatgg     660
taatttgagc gactgctctt cctcctgtgt gtctcgagcc caatttatga caaccgtgct     720
ccaaatactg cagaattaag ggtctgtcgt gtaaacaaga attgtggaag tgtcagagga     780
ggagatgaaa tatttctact ttgtgacaaa gttcagaaag atgacataga agttcgtttt     840
gtgttgaacg attgggaagc aaaaggcatc ttttcacaag ctgatgtaca ccgtcaagta     900
gccattgttt tcaaaactcc accatattgc aaagctatca cagaacccgt aacagtaaaa     960
atgcagttgc ggagaccttc tgaccaggaa gttagtgaat ctatggattt tagatatctg    1020
ccagatgaaa aagatactta cggcaataaa gcaaagaaac aaaagacaac tctgcttttc    1080
cagaaactgt gccaggatca cgtagaaaca gggtttcgcc atgttgacca ggatggtctt    1140
gaactcctga catcaggtga tccacccacc ttggcctccc aaagtgctgg gattacagtt    1200
aattttcctg agagaccaag acctggtctc ctcggttcaa ttggagaagg aagatacttc    1260
aaaaaagaac caaacttgtt ttctcatgat gcagttgtga gagaaatgcc tacaggggtt    1320
tcaagtcaag cagaatccta ctatccctca cctgggccca tctcaagtgg attgtcacat    1380
catgcctcaa tggcacctct gccttcttca agctggtcat cagtggccca ccccacccca    1440
cgctcaggca atacaaaccc actgagtagt ttttcaacaa ggacacttcc ttctaattcg    1500
caaggtatcc caccattcct gagaatacct gttgggaatg atttaaatgc ttctaatgct    1560
tgcatttaca acaatgccga tgacatagtc ggaatggaag cgtcatccat gccatcagca    1620
gatttatatg gtatttctga tcccaacatg ctgtctaatt gttctgtgaa tatgatgaca    1680
accagcagtg acagcatggg agagactgat aatccaagac ttctgagcat gaatcttgaa    1740
aacccctcat gtaattcagt gttagaccca agagacttga gacagctcca tcagatgtcc    1800
tcttccagta tgtcagcagg cgccaattcc aatactactg tttttgtttc acaatcagat    1860
gcatttgagg gatctgactt cagttgtgca gataacagca tgataaatga gtcgggacca    1920
tcaaacagta ctaatccaaa cagtcatgtt tttgttcaag atagtcagta ttcaggtatt    1980
ggcagtatgc aaaatgagca attgagtgac tcctttccat atgaattttt tcaagtataa    2040
cttgcaagat ttaaatcctt ttaaatcttg ataccaccta tatagatgca gcattttgta    2100
tttgtctaac tggggatata atactatatt tatactgtat atataatact gactgagaat    2160
ataatactgt atttgagaat ataaaaaact ttttcaggg aagaagcata caactttgga    2220
catagcgaat acaaaattgg aagctgtcat aaaaagacaa ctcagaggcc aggcgcaggg    2280
gctcacacct gtaatcctag cactttggga ggccaaggcg ggtggatcac ttgagaccag    2340
```

```
gaattcgaga ccagcctggc caacatggtg aaaccccgtc tctactaaaa atacaaaaat    2400
tagctgagca tggtggtacg tgcctgtact gtcagctact tgggaggctg aggcacaata    2460
attgtttgaa cccaggaagc agaggttgca gtgagctgag atcacaccac cgcactccag    2520
cctgggtgac agagtgagac tctgtctc                                       2548


        <210> 5928
        <211> 959
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (829)...(867)
        <223> similar to gi2828026 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


        <400> 5928
cagagcgaga ccctgtctca cgaaaaacaa aaacgatcaa aaagctccca aataacatgg      60
atggggacag cgccatgaa gggctgacat gggagggaga cataggcagt ggctggcagg     120
gggcaggtgg ggatggggggt cagggggagg aggtgcctgc tgggcctagt gtgtcatgtc     180
ccctccacac acgccaccaa actcccactg ctccgagccg cactacatcc ctgctcccca     240
gcctaggggc tgtgctgggg cctgaccctt tgtgagctct cctcagtccc agtcaagtgg     300
acctcctccc tccctctcca cagcccttgc ccttgtccag gccaccatca ccatcaccaa     360
caccatcctt gccagcctgg agtcccctct cttcattctg tggggctaat ggggggtggct     420
gtgtgggaag cctctggggt ctaccgttgg ggagctctgc atggctgagg ttggggggttc     480
tctgggaacc tgtggccaag ggtctctggt cacagtgccg aggtgggcct ggcttttcca     540
cagtggagtc cattgatgat tacgtgaacg ttccggagag cggggagagc gcagaagcgt     600
ctctgggtga gtgaccggtg cttgtcggtg cctgcccctg cacccgctg ccccaccatg      660
ctctcagtgt gaccagatcc caccctgggg ctacccacac cctctgcccc ctctgtctgg     720
gcgtcccctt gctctctcgc cctcctgacc cctttgcgtg gctgcccctc cttctgatct     780
gtccccacag atggcagccg ggagtatgtg aatgtgtccc aggaactgca tcctggagcg     840
gctaagactg agcctggtgt gttctgcggg aggggcagga gctggggtag ctgctttggg     900
cttggggggga tagcttgcaa gctggagacc aacctcccct cccttacagc cgccctgag     959


        <210> 5929
        <211> 1424
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (280)...(1186)
        <223> similar to gi4586838 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

<400> 5929
```
ttgttgggta tcctgatgat ggcaaatgtc ttcatttatt ttattatgga agtctccaaa      60
agcagtagcc aagaaaaaaa tggaaaaggg gaagtaataa tacccaaaga gaagttctgg     120
aagatatcta cccctcccga ggcatactgg aaccgagagc aagagaagct gaaccggcag     180
tacaaccccca tcctgagcat gctgaccaac catacggggg aggcgggcag gctctccaat     240
ataagccatc tgaactactg cgaacctgac ctgagggtca cgtcggtggt tacgggtttt     300
aacaacttgc cggacagatt taaagacttt ctgctgtatt tgagatgccg caattattca     360
ctgcttatag atcagccgga taagtgtgca aagaaacctt tcttgttgct ggcgattaag     420
tccctcactc cacattttgc cagaaggcaa ggcaatccgg gaatcctggg gccaagaaag     480
caacgcaggg aaccaaacgg tggtgcgagt cttcctgctg ggccagacac ccccagagga     540
caaccacccc gacctttcag atatgctgaa atttgagagt gagaagcacc aagacattct     600
tatgtggaac tacagagaca ctttcttcaa cttgtctctg aaggaagtgc tgtttctcag     660
gtgggtaagt acttcctgcc cagacactga gtttgttttc aagggcgatg acgatgtttt     720
tgtgaacacc catcacatcc tgaattactt gaatagttta tccaagacca aagccaaaga     780
tctcttcata ggtgatgtga tccacaatgc tggacctcat cgggataaga agctgaagta     840
ctacatccca gaagttgttt actctggcct ctacccaccc tatgcagggg gagggggtt      900
cctctactcc ggccacctgg ccctgaggct gtaccatatc actgaccagg tccatctcta     960
ccccattgat gacgtttata ctggaatgtg ccttcagaaa ctcggcctcg ttccagagaa    1020
acacaaaggc ttcaggacat ttgatatcga ggagaaaaac aaaaataaca tctgctccta    1080
tgtagatctg atgttagtac atagtagaaa acctcaagag atgattgata tttggtctca    1140
gttgcagagt gctcatttaa aatgctaaaa tagatacaaa ctcaattttg catagaaagg    1200
tgtattttga atagttccca tgttgtgttc tcacattata gtaatttcta tattataccaa   1260
tgaaaattgt ctttatgagt gatacccaat tgagggcctc taaacctttc tctttgttac    1320
taaccttatc attgatagtc ttatttgttt ttttctttttt tatctctctt gtgtattctt   1380
tcatctttat tcttactatt tgtactatct cttttatata ttcg                     1424
```


<210> 5930
<211> 2634
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (95)...(2042)
<223> similar to gi5901872 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5930
```
tttcgtaaga cgacgaggag gctgcgaaaa gttaagggcc ggaccgcagg ctgtgctcgc      60
ttccggaagt ggcttctgcg acaacatgct tgcggacctc ggcttaatcg gaaccatagg     120
cgaggatgac gaggtgccgg tggagcccga gtctgactcc ggggacgagg aagaggaggg     180
gcccattgtg ctgggcagac gacaaaaagc tttggggaag aaccgcagtg ctgatttcaa     240
ccctgatttc gttttcactg agaaggaggg gacgtacgat ggcagctggg ccctggctga     300
tgtcatgagc caactcaaga gagaagaggg cagccactaca ttagatgaga agattgagaa     360
agttcgaaag aaaaggaaaa cagaggataa agaagccaag tctgggaagt tggaaaagga    420
gaaagaagca aaggaaggct ctgaaccaaa ggagcaggaa gaccttcaag agaatgatga    480
ggaaggctca gaagatgaag cctcggagac tgactactca tcagctgatg agaacatcct    540
caccaaagca gatacactca aagtaaagga tcggaagaag aagaagaaga aggacagga    600
```
```
                                 4464
```

```
agcaggagga tttttttgaag atgcatctca gtacgatgaa aacctctcgt tccaggacat    660
gaacctttcc cgccctcttc tgaaggccat tacagccatg ggcttcaagc agcccacccc    720
gatccagaag gcgtgcatac ctgtgggtct attggggaag gacatctgtg cctgtgcagc    780
cactgggaca ggtaaaactg ccgcctttgc cctgcctgtt ttggagcgtc tgatttataa    840
accccgccag gctccagtca cccgcgtgct ggtgctagtg cccacccgag agctgggcat    900
ccaggtgcac tctgtcacca gacagctggc ccagttctgc aacatcacca cctgcctggc    960
tgtgggcggc ttggatgtga agtctcagga agcagctctt cgggcagcgc ctgacatcct   1020
catcgccacc ccaggccggc tcatcgatca cctccacaac tgcccttcct tccacctgag   1080
cagcatcgag gtgctcatcc tggacgaggc tgacaggatg ctggatgagt actttgagga   1140
gcagatgaag gagatcatcc gaatgtgttc ccaccaccgc cagaccatgc tcttctcggc   1200
caccatgaca gacgaggtga aagatctggc ttctgtctcc ttgaagaatc ctgtccggat   1260
atttgtgaac agcaacacag atgtggctcc cttcctgcgg caggagttca tccggatccg   1320
gcctaatcgt gaaggagacc gggaagccat cgtggcagct ttgttgacga ggaccttcac   1380
tgaccatgtg atgctgttca cgcaaaccaa gaagcaggcc caccgcatgc acatcctcct   1440
ggggctcatg gggctgcagg tgggtgagct ccatggcaac ttgtcacaga cgcagcggct   1500
ggaggccctc cggcgtttta aggatgaaca gattgacatc ctcgtggcca ctgatgtggc   1560
agcccgtgga cttgacattg agggggtcaa aacggtaatc aacttcacaa tgcctaatac   1620
catcaaacat tatgtccacc gggtggggcg aacagcacgt gctggcaggg ctggcgctc    1680
agtctctctg gtgggagaag atgagcggaa gatgctgaag gagattgtaa aagctgccaa   1740
ggcccctgtg aaggccagga tacttcccca agatgtcatc ctcaaattcc gggacaagat   1800
tgagaaaatg gagaaagatg tgtatgcagt tctgcagcta gaggcggagg aaaaagagat   1860
gcagcagtca gaagcccaga tcaatacagc aaagcggctc ctggagaagg ggaaggaggc   1920
agtggtccaa gagcccgaga ggagctggtt ccagaccaaa gaagagagga agaaggagaa   1980
aattgccaaa gctctgcagg aatttgactt ggccttaaga ggaaagaaga aaaggaagaa   2040
gtttatgaag gatgccaaaa aaaaggggga gatgacagca gaggaaaggt ctcagtttga   2100
aatcctcaag gcgcagatgt ttgctgaacg gctagcgaag aggaatcgca gagccaagcg   2160
ggcccgagca atgcccgagg aggagccagt gagaggtcct gccaagaagc aaaagcaggg   2220
gaagaaatct gtatttgatg aagaactcac caacacaagc aagaaggccc tgaaacagta   2280
tcgagctggc ccttcctttg aagaaaggaa acagttgggc ttgccccacc agagacgagg   2340
aggaaacttt aaatctaaat ccagatacaa gaggaggaag tagctgtcgt ggcctgaaga   2400
aattcatggg ggcagcccctt aaatcccttc cctgtgggaa gtcatcctgg ctggtctgtc   2460
ttttctccat ttgtttaaaa aaaaaacaaa aacaaaaaac aacactttgg tgtggtggta   2520
tggtacgtag ctattttcct aagcatgtct gtcaatctcc cttcttgctg attagctttc   2580
atagactatt attaaatgga agtatttttg ggaaaagaga aaccaaaaaa aaaa          2634
```

```
<210> 5931
<211> 897
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (889)...(162)
<223> similar to gi33724 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

```
<400> 5931
tttttttttt ttctgattga caatgagaat atttattgag ggtttattga gtgcagggac     60
gaagggcttg atgcccctgg ggtgggagga gagacccccct ccccgggaa tcctgcagct    120
ctagtcctcc cgtggtgggg ggtgaggggt tgagaaccta tgaacattct gtaagggccc    180
```

4465

```
actgtcttcc tcccacggtg ctccccttca atgcgtgacc ctggcaactg taaccttctg      240
tgggacttcc cactgctcaa gccgtcaagc ctaagataag ctgctggccg cgtacttgtt      300
gttgctttgt tgtggagggt gtggggggt ctccactccc gccttgacgg ggctgctatg      360
ctgccttccc aggccacttg tcacggctcc cggggtagaa gtcacttatg gagacacacc      420
agtgtggcca ttgttgggct tgaagctcct cagaggaggg ctgggaacag agtgacccga      480
ggggagcagc cttgggctgg acctaaggac gggtaagctt ggtcccctcc gccgaatacc      540
acatgatcac tactactatc ccacacctga cagtaatagt catccctcat ccatagcctg      600
tgtcccgctg atggtcaaag tggctgttgt tccagagttg gagccataga atcgtttatg      660
gatccctgag ggccggtcgc tatcaccata gacgaccagc acaggggcct ggcctggctt      720
ctgctggtac cagtgcacac ttttacttgc aatgttgatt cccccacagg taatcctggc      780
cgcctttcct ggggccactg acaccgaggg tggctgagtc agcacatagg aggtcacaga      840
gcctgtgcag tgagagagga ggccgaggag gagaacggtc caggccatgg ctgaggc        897
```

```
            <400> 5932
tttcgtctgc gcgagagttt ctgctcgctc aaccgagttg tcgtgttgcc ctcgcttctc       60
agatccccgc cggaagtgaa gagagcaagc agatttgaac ctatctgctt tcaagctggt      120
catcatgatg aaacttagac acaaaaataa aaagccaggt gaaggttcca agggccacaa      180
gaagataagt tggcccctacc ctcagcctgc aaagcaaaat gggaagaaag caacctccaa      240
agtgccctct gcacctcatt ttgttcaccc caatgatcat gccaatcgag aggctgaatt      300
aaagaagaag tgggttgagg agatgaggga gaagcagcaa gccgcccggg agcaagaaag      360
acaaaaacgc aggaccattg agagctactg tcaggatgtc ctaagacgcc aggaggagtt      420
tgagcataag gaggaagttt tgcaggaatt aaatatgttt cctcagctgg atgacgaggc      480
cacgaggaag gcttattaca aggagttccg taaggtggtg gaatactctg atgtgattct      540
ggaagtcctg gatgccagag acccattagg ctgccgctgc ttccaaatgg aggaggctgt      600
cctgcgagca caaggcaaca agaagctggt cctggtcttg aacaagattg acctggtccc      660
caaggaggtt gtggagaaat ggctggatta ccttcggaat gagttgccaa ccgtggcttt      720
caaggccagt acccagcatc aggtcaaaaa cctgaatcgt tgcagtgtgc cagtagatca      780
ggcctctgag tcactgctga aaagcaaagc ctgctttgga gctgaaaacc tcatgagggt      840
tctggggaac tattgccgcc ttggtgaagt gcgcacccac attcgtgtgg gtgttgtggg      900
tcttcccaat gttgggaaga gcagcctgat caatagcctg aagcgcagcc gcgcatgcag      960
cgtgggagct gttcctggaa ttaccaaatt catgcaggag gtctacctgg acaagttcat     1020
ccggctcttg gatgctccag gcattgtccc agggcccaac tcagaggtgg gcaccatcct     1080
gcgtaactgc gtccacgtgc agaagctggc agaccctgtg accccagtgg agaccatcct     1140
gcagcgctgc aacctggagg agatttccaa ctattatggc gtctctgggt ccagaccac     1200
tgagcacttt ctgacggcag tggcccaccg tttggggaag aagaagaagg gaggcttata     1260
tagtcaggaa caggcggcca aagctgtcct agctgactgg gtgagcggga agatcagctt     1320
ctatatacca ccaccagcca ctcacactct gcccacccat ctcagtgctg agatcgttaa     1380
ggaaatgacc gaggtctttg acatcgagga tactgagcag gccaatgaag acaccatgga     1440
atgcttggcc accggagaat ctgatgagct gttgggtgac acggacccac ttgaaatgga     1500
```

```
gatcaagttg ctccattctc cgatgacgaa aatagcagat gccattgaaa ataaaaccac    1560
cgtgtataag attggagatc tcactgggta ttgcaccaat ccgaaccgtc atcagatggg    1620
gtgggctaaa cgcaatgtgg accaccgccc taagagcaac agtatggtgg atgtctgctc    1680
agtggaccgc cgctcagtgc tgcagaggat catggagacg gacccctgc aacagggcca     1740
ggctctggca tctgccctga aaaataagaa gaagatgcag aaacgtgcag ataaaatcgc    1800
cagcaagctg tctgattcca tgatgtctgc tctcgacctc tctggcaatg ctgatgatgg    1860
tgttggtgac taatcgactg atctcacttc ccttccgctc caagcaccag ttccggtggt    1920
acgggggaat accagtgaaa tagtttggtt ctccctgaag catctgcata ttgaaagaac    1980
gctttcccca ctgtgtgtct tctcccctcc ctccagtaaa aacagtcccg gctgggtgct    2040
gtggctcacg tctgtaatcc cagcactttg ggaggccgag gtgggcggat cacctgaggt    2100
cgggagttcg agaccagcct ggccaacatg gtgaaacccc gtctctacta aaaatacaaa    2160
aaaatttagc cgtgcttagt ggcacctata gtcccagcta cttgggaggc tgaggcagga    2220
gaatcgcctg aacctgggag actaaggcgg gagaatcgcc tggacctggg aggcagaggt    2280
tgcagtgagc ccagacccca ccattgcact ctagcctggg caacaacccg aaactccgtc    2340
ccaaaaaaaa aa                                                         2352
```

<210> 5933
<211> 1081
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (242)...(443)
<223> similar to gi3002527 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5933
```
cgctttcggc atggaggaaa tttatgcgaa gtttgtgtcc cagaaaatca gcaaaacccg     60
ctggcgaccg ctgcctccgg gaagtttaca gaccgcggag acgttcgcta caggatcttg    120
ggacaatgag gaaaattata tttcactgtg gtctattgga gattttggaa acttggactc    180
tgatggaggg tttgaaggag accatcagtt attgtgtgat atcagacacc atggtgatgt    240
aatggattta cagttttttg accaggaaag aattgtcgct gcttcatcaa caggatgtgt    300
aacagttttc cttcaccatc caaataacca gactctgtca gtcaaccagc agtggactac    360
agctcactac cacacaggcc ctggcagtcc ttcctatagc agtgcaccat gtacaggtgt    420
tgtgtgcaac aacccaaaaa tcgttacagt tggagaggat ggtcgaataa atctcttcag    480
agctgatcac aaggaagctg taagaaccat agacaatgca gatagtagta cactccatgc    540
tgtaaccttt cttcgaactc ctgagattct tactgtaaat tcaattggac agttgaaaat    600
atgggatttc agacaacaag gaaatgagcc ttctcagatt attgtcactg actggtgacc    660
gagtgccact ccactgtgtt gatagacatc ccaaccaaca gcatgttgta gctactggtg    720
gccaagatgg aatgttgagt atttgggatg ttagacaagg tactatgcct gtatctctgc    780
tgaaggctca tgaagctgaa atgtgggaag ttcactttca cccatccaac ccagaacatc    840
tttttacctg ctctgaagat ggatccctct ggcactggga tgcttccaca gatgtacctg    900
aaaagtcgtc actctttcac caagaaaaat tctggagcgg agagcatgtg tggagcatgc    960
atgcatgtcc atgctataac ttcatctaca gagaaacaaa cagtttcatc taaggattaa   1020
ctaagaggaa gaagcagtac tttttgtct catagcatta gtaaccaagc taatgttcac    1080
c                                                                    1081
```

```
<210> 5934
<211> 1898
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1868)...(611)
<223> similar to gi1842105 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters



<400> 5934
cgtcgacttt tttttttaa agtttcatag tggttctctt atttataaaa taatcacatt     60
caagtcttac cagagagtag caaagtcttc aattcctttc ctttcctttg aagaaataat    120
gtagagcaat cactcataaa tccctctaat tataaataaa atccaagata ttatttgaca    180
atgagatgct ttatttaaac ttgatacatt tactatataa gaattctgtg aaaaaatggg    240
gtatgaaatt attttggatc tgaatctttg cattataaaa tctaacccaa aactatgtca    300
tttcactgta ttctgtgact attagcagat ggatgaccaa aggcaactac ttcctttcct    360
ggcaaaacaa gacaagtttc agctgacttc cccatggtgt tacaagttct cctagtgaag    420
taaaaagtcc caacccctct ttctatgcat gtcatctcca ggaaggtaag ctttgggaag    480
cacctgcgcc agccctatat ctgtgcttgg catgaggttc acacaggttc ggccttgaga    540
tggggatgtt cctctcaacc aaacaactct acttgaatta ttccgagact ccttggaggg    600
gtgaaacttc aggcctgggt gtctctgcag tgagatgtct gtggttggta aacagttctg    660
tagagtcttg ttctactgat ctttcttcta ggtctgactc tgggattgta gtacaaccac    720
ctggcatgac catggtctgg tgggggctgc tgcatcggta cttaggcaga gacggccacc    780
tttggataat ctatcgcaga gcaaggtgat atgtttcttc agttggcttg tgtcctttgg    840
gtatgttcaa gctggctgtt gaaggttcaa aagcctgctc ccttagaaac tcttcgacag    900
gcaagtcttc caacaggtgg gaaatggcgg catccaccgt ttcttcccag cccaattctt    960
gagtgtcttc ttgtagcggc agaaatgccg cttccagaat agcaacctgg tcagcactaa   1020
gcttctgcca cagcgcgatc agcagaatca ccaaatgggt ggcactcttc agcctggtga   1080
atgactggaa cagattgcct tggttttcct ccactgcatc tgctagagca attacctgct   1140
tgtaggttcc atctaacaag gtgtccaggt gttgaagagg ggcaggagtt ttatctttga   1200
atcttgctag tagccggcgt tgaatggccc gaaattgtac agctctctca gataagagtt   1260
cttctaattt ttcaccattt atccgtagct caaaatggat ggatccaatc aactccaaaa   1320
tattccttga aaggggtaat agatccccga aaaagaacat gcaaatctt tgactccctg   1380
tttttcaaaa tattcttgaa ggcgaagaat aagctcattg gttaatgaag cccaaagatc   1440
cttcaaattg ttccactcct ggaatgcgaa tatccgttga agaagttttg gaagcaagaa   1500
cagtaattcc gagcacctcc ctaagaagtg aaaacccatt acattcacct gatcatcatc   1560
tgactgactg gcaaaacctg ggaagagact aagaagactg actggagatt tgttggtatc   1620
aatagtaatt ttgtggcttg cagttttga aggctgacct ggtaggcaaa ttaactttag   1680
gggaagtcta aatttacatt ggataactcg cggaatgcca tcaggatttc gattcataaa   1740
ttcaaaggtg aactgatcac aagtcaattc taatggtggt tgcacgtaga ctgataattt   1800
ggcttttgc aatatcactc tgttctgcag tgtgaccttc accgtgacag aagggacaag   1860
gtcagttccc acctcaacat cggtcgcttg agaaactg                          1898



<210> 5935
<211> 704
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (697)...(698)
<223> similar to gi522145 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5935
cggcacgaga tcatctcagt gagacaggtt aactctatca cagccacaga gctgataatg   60
cagtgagtcc cagatataaa cctcatttgt ctaatcccag agaattctct aggtgacttt   120
ttcaggataa gacacagttt tatctttatg aaaatttcct taacttttca ggagagaagg   180
ctcttatgac cgatacctac gaatggatga ctattgcagg agaaaggatg actcttattt   240
tgaccgttac agagatagct ttgatggacg gggccctcca ggcccagaaa gtcagtctcg   300
tgcaaaaggt aaagtagctg aaacagtcta ttcctattat tgatagaaca ctttacaaaa   360
gagagaggaa actaataacc agtacccca tctgaaaaag ggctagtgcc ttggccaagc   420
agtgtataaa aagaagaaat ataagtagct tattagtggg taaagagcat ttggcttgaa   480
aatgattttt aagatgcaaa ttagtaccat catctggttt agtcatccaa caagaagaaa   540
taaatatgaa attccagcaa taagaaatga acaaaatgct ggtcactgtg gccaccacct   600
gtaatcctag cactttggaa ggccaaggcc ggcagatcac ttgagcccag gagttcgaga   660
ccagcttaag caacatgata aaaccccatc tctacaaaaa aaaa   704

<210> 5936
<211> 2203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (775)...(1647)
<223> similar to gi173157 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 5936
tttcgtgacc gatggagatg gcggctgcgg ctgagtgacg gacggtggag gcccagagcc   60
cgggcctgaa gggggggaca aacctgggtg cccgcaggag cccggcaggg tgtcttacaa   120
gtatcaagaa cttactatat gtggttgaat aaacaatcaa ggtaaagagc atcaagtaaa   180
aacttctgct tgttgataag tacttcagac attcccccag tggctgaagt ggcatatgaa   240
ttatgaagtt ggatcatttg gaatgaatgt aagagaattg ccaagggctc ctcctactcc   300
agagaggaaa cctcatccag ggccatgaag ccacttcctc accatctgtg tgctgcttaa   360
gctaatgctg cgggaaccat ggttccttgg gaggaatcaa gctgactctt ggcatgagat   420
tcctgccttc ctagggttga gagcggcact gccatggctt ctctggacga cccaggggaa   480
gtgagggagg gcttcctctg ccctctgtgc ctgaaggatc tgcagtcttt ctatcagctt   540
cactcacatt acgaggaaga acactcaggg gaagaccgtg atgtcaaagg gcaaattaaa   600
agtcttgtcc agaaggctaa aaaagcaaag gccaggttgt tgaaacgaga aggggatcat   660
cgagcagagt caggaccca aggatatgag tctgtcagct atggaggggt tgatccgtac   720
atgtgggaac cccaggagcg tggtagctgt gactatgcca tctttccgac ttcaaaaaac   780

```
accgagctgc tagaattgac cactatgttg tggaagtcaa taaactaata atcaggttag    840
agaagctcac tgcatttgac agaacaaata ctgagtctgc aaagattcga gcaatagaaa    900
agtctgtggt gccttgggtc aacgaccagg atgtcccttt ctgtccagac tgtgggaata    960
agttcagcat ccggaaccgc cgccaccact gccgcctctg cgggtctatt atgtgcaaga   1020
agtgtatgga gctcatcagc cttcccttgg caaacaagct caccagtgcc agcaaggagt   1080
ccctgagcac ccacaccagc cccagccagt cacccaacag tgtccatggc tcccgccgag   1140
gcagcatcag cagcatgagc agtgtcagct cggtcctgga tgagaaggac gatgaccgga   1200
tccgctgctg tacacactgc aaggacacgc tgctcaagag agagcagcag attgatgaga   1260
aggagcacac acctgacatc gtgaagctct acgagaaatt acgactttgc atggagaaag   1320
ttgaccagaa agctccagaa tacatcagga tggcagcatc attaaatgct ggggagacaa   1380
cctacagtct ggaacatgcc agtgaccttc gagtggaagt gcagaaagtg tatgagctga   1440
tagacgcttt aagtaagaag atcttaacct tgggcttgaa ccaggaccct ccaccacatc   1500
caagcaattt gcggctgcag agaatgatca gatactcagc tacacttttt gtgcaggaaa   1560
agttgcttgg tttgatgtca ctgccaacca aagaacagtt tgaggaactg aaaaagaaaa   1620
ggaaggagga aatggagagg aagagggccg tggagagaca agctgccctg gagtcccagc   1680
gaaggcttga ggaaaggcag agtggcctgg cttctcgagc ggccaacggg gaggtggcat   1740
ctctccgcag gggccctgcc cccttgagaa aggctgaggg ctggctccca ctgtcaggag   1800
gtcaggggca gagtgaggac tcagacccgc tcctccagca gatccacaac atcacatcat   1860
tcatcaggca ggccaaggcc gcgggccgca tggatgaagt gcgcactctg caggagaacc   1920
tgcggcagct gcaggacgag tatgaccagc agcagacaga gaaggccatc gagctgtccc   1980
ggaggcaggc tgaggaggag acctgcagc gggaacagct gcagatgttg cgtgaacggg   2040
agttggaacg agaaagggag cagtttcggg tggcatccct gcacacacgg actcggtccc   2100
tggacttcag agaaatcggc ccttttcagc tggagcccag cagagagcct cgcacccacc   2160
ttgcttatgc tttggatcta ggctcttccc cagttccaag cac                     2203
```

<210> 5937
<211> 2547
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (221)...(2331)
<223> similar to gi165652 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5937
```
aatttccggt tcgacgatcc cgtcccctgg cggagccggc gcgcccgggg tgccgctccc     60
tgcctggcgc gctccgcacc tggaggtgcc ttgcccctct cctgcccacc tcggaatttc    120
cctgtggctc ctttgatcct tcgagtctcc agctcctctc ccttccacct gtttcccca    180
agaaaggcag gatcctggtc cctgctacgt ttctggggcc atggctggtc tgggcccgg    240
cgtaggcgat tcagaggggg accccggcc cctgtttgc agaaggggg ctctgaggca    300
gaaggtggtc cacgaagtca agagccacaa gttcaccgct cgcttcttca agcagcccac    360
cttctgcagc cactgcaccg acttcatctg gggtatcgga aagcagggcc tgcaatgtca    420
agtctgcagc tttgtggttc atcgacgatg ccacgaattt gtgaccttcg agtgtccagg    480
cgctgggaag ggcccccaga cggacgaccc ccggaacaaa cacaagttcc gcctgcatag    540
ctacagcagc cccacctct gcgaccactg tggctccctc ctctacgggc ttgtgcacca    600
gggcatgaaa tgttcttgct gcgagatgaa cgtgcaccgg cgctgtgtgc gtagcgtgcc    660
ctctctgtgc ggtgtggacc acaccgagcg ccgcgggcgc ctgcagctgg agatccgggc    720
tcccacagca gatgagatcc acgtaactgt tggcgaggcc cgtaacctaa ttcctatgga    780
```
```

```
ccccaatggt ctctctgatc cctatgtgaa actgaagctc atcccagacc ctcggaacct    840
gacgaaacag aagacccgaa cggtgaaagc cacgctaaac cctgtgtgga atgagacctt    900
tgtgttcaac ctgaagccag gggatgtgga gcgccggctc agcgtggagg tgtgggactg    960
ggaccggacc tcccgcaacg acttcatggg ggccatgtcc tttggcgtct cggagctgct   1020
caaggcgccc gtggatggct ggtacaagtt actgaaccag gaggagggcg agtattacaa   1080
tgtgccggtg gccgatgctg acaactgcag cctcctccag aagtttgagg cttgtaacta   1140
cccccctgga ttgtatgagc gggtgcggat gggcccctct tcctctccca tcccctcccc   1200
ttcccctagt cccaccgacc ccaagcgctg cttcttcggg gcgagtccag gacgcttgca   1260
catctccgac ttcagcttcc tcatggttct aggaaaaggc agttttggga aggtgatgct   1320
ggccgagcgc aggggctctg atgagctcta cgccatcaag atcttgaaaa aggacgtgat   1380
cgtccaggac gacgatgtgg actgcacgct ggtggagaaa cgtgtgctgg cgctggggggg   1440
ccggggtcct ggcggccggc cccacttcct cacccagctc cactccacct tccagacccc   1500
ggaccgcctg tatttcgtga tggagtacgt caccggggga gacttgatgt accacattca   1560
acagctgggc aagtttaagg agccccatgc agcgttctac gcggcagaaa tcgctatcgg   1620
cctcttcttc cttcacaatc agggcatcat ctacagggac ctgaagctgg acaatgtgat   1680
gctggatgct gagggacaca tcaagatcac tgactttggc atgtgtaagg agaacgtctt   1740
ccccgggacg acaacccgca ccttctgcgg gaccccggac tacatagccc cggagatcat   1800
tgcctaccag ccctatggga agtctgtcga ttggtggtcc tttggagttc tgctgtatga   1860
gatgttggca ggacagcctc ccttcgatgg ggaggacgag gaggagctgt ttcaggccat   1920
catgaacaa actgtcacct accccaagtc gctttcccgg gaagccgtgg ccatctgcaa   1980
ggggttcctg accaagcacc caggggaagc gcctggggct tcagggcctt gatgggggaa   2040
cctaaccatc cgtgcacatg ggttttttcc gctgggattt gactgggagc ggctggaacg   2100
attgggagat ccccgcctcc ttttcaagac cccgcccgtg tggcccgcag cggcgaggaa   2160
tttttgacaa gttcttcacg cgggcggcgc cagcgctgac ccctccagac cgcctagtcc   2220
tggccagcat cgaccaggcc gatttccagg gcttcaccta cgtgaacccc gacttcgtgc   2280
acccggatgc ccgcagcccc accagcccag tgcctgtgcc cgtcatgtaa tctcacccgc   2340
cgccactagg tgtccccaac gtcccctccg ccgtgccggc ggcagcccca cttcacccc   2400
aacttcacca cccccctgtcc cattctagat cctgcacccc agcattccag ctctgccccc   2460
gcgggttcta gacgcccctc ccaagcgttc ctggccttct gaactccata cagcctctac   2520
agccgtcccg cgttcaagac ttgagcg                                       2547
```

        <210> 5938
        <211> 847
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (538)...(313)
        <223> similar to gi1345539 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5938
```
tttcgtcgca gttcggaagg acccgagtcc cttatctaac cgagagctaa caggtcgggg     60
actgcgggac ggaagaggga ggggaagatg aagaaaatcg gtgatgaatg gctggcggaa    120
atgattggcg gaaagaaaga gccagttcac agtgcgcctt tgtattcggc gggaaacccg    180
gccgaagagg gagctggaaa ggactccgga atccggccgt aattccagcc aatcagggag    240
tagagttgcg gcgcggggtt ggggcggggc agtctcgcgg gagatagttt cgcgggttcg    300
ggaggcgagt ctccggtttc cgcccagtct ctggggacgc ggtggcgggg tctgaatcgc    360
ctggcttcca gggagttttg ggcgggtccc cgcacgggag cgtggcaggc gctggactcg    420
```

```
acagcagatg tggaactgga gagcttggcg cgccctcata ctttgtcaca cacctacgcc    480
accagactgg ggtcgggccc ctccgcgttc tgctctggag ggcctgggtc tgggcccagc    540
atagcgcttt tagaatctcc tcagctgaat ctgacgctca gccgtaggtg aagcttagcc    600
cgctgtttca ggccccgccg atctggaagg agtgtcagag ctggagcgcg cgtggcctca    660
tcggtgttgg ggtcaccccg gggttgccag ggctcatgga gggtcgtagt ctggattttg    720
tcaccccac gtccccgccc cgcagcaagt ctggggttgg agaactcacg cggtcttcgt    780
aagctacatg ccagttgacc ctcgaggagg gatgccccct cccccttaagc gtccacgctg    840
gagaagg                                                              847
```

```
        <210> 5939
        <211> 1171
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1172)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (463)...(973)
        <223> similar to gi4406696 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters
```

```
        <400> 5939
tttcgtgtgt gtgtgagagg gagagacgac gtgaggcgag aggaaaagtc tttagtcggc     60
cttaaaagca aacaaatcag agatggaata agagcggtaa ttgcagcaag accgccttga    120
ttcttgcagt ccagggagct gagcgcaccg cgcgcatccg gcgaggacag gaggcgaccg    180
cgggcgctgc caagggctgc gggactttgg cttttcctca gtaaacaaat cttttgatta    240
ctttgacact gtggaataaa gaagcgggga gaaggatcag gctcaccttc acccgcttca    300
gggggattcc agcttggatg tcagattcct gaaccgtctt tgccatcgga ggaggaaaca    360
catccacaca cgcgcgcgca cactcgcacg ctcagggcca cactcacacg ccgccctcca    420
cgatcacaca gcaccagact tcggttccct atgcccctgg atggtgacgg cggattggca    480
tcttggaagc gatgcgagag cgataaggct ggcgccggcc cgcaaaagct gcaggagcat    540
cgctaggtgt tgccgccacc gggaagcggg gctgcaggat gagtaagaga tacttacaga    600
aagcaacaaa aggaaaactg ctaataataa tatttattgt aaccttgtgg gggaaagttg    660
tatccagtgc aaaccatcat aaagctcacc atgttaaaac gggaacttgt gaggtggtgg    720
cactccacag atgctgtaat aagaacaaga tagaagaacg gtcacaaaca gtcaagtgct    780
cctgcttccc tgggcaggtg gcaggcacca cgcgagctgc tccatcatgt gtggatgctt    840
caatagtgga acagaaatgg tggtgccata tgcagccatg tctagaggga gaagaatgta    900
aagttcttcc ggatcggaaa ggatggagct gttcctctgg gaataaagtc aaaacaacta    960
gggtaaccca ttaacccagg agaaatcaag tgatcctcaa ggctgatgac attgaacatg   1020
cgcataggaa acttaactca actcctgagg tgatctttga agatttttat taccactttg   1080
aaaagagggc gttcantagt ctattttccc aaggggattt tcngggcctc tttctttgaa   1140
ttcaaggatt ttttaaaagt tcagacatga a                                  1171
```

```
<210> 5940
<211> 1468
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (285)...(1390)
<223> similar to gi6010117 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters



      <400> 5940
tcccgggtcg acgatttcgt gcgaaaagcc gggactggac ctagcggagt tgtgcttgtc        60
gccgaagcgg ggtgggcttg ttcgttccgc gcagccgcag ccagaaccgg gtgacgctta       120
tccccgctgt ctttccagtc cagggccgct gagagtgggg gtggctggga gcagcgcagc       180
ctccggagga ggaggcggag gccgaggacc aggaatcacc ttcaagccta tgtcgtgagg       240
ctttggcaga aattaagaag gaaatatctc cattgttcat tggcatggaa aaatgttcag       300
tgggaggatt agagttgact gaacagactc ctgctttatt agggaatatg gccatggcaa       360
ctagtctcat ggacataggg gattcatttg gtcatccagc ttgtcctta gtcagtagat        420
ctaggaactc accagtggaa gatgatgatg atgatgatga tgttgtgttt attgaatcta       480
tacaacctcc ttcaatttct gctccagcaa tagctgatca aagaaacttc atatttgcat       540
catcaaaaaa tgaaaagcct caaggaaatt attctgtaat tcctccttct tcaagagatt       600
tggcatctca gaaaggaaat ataagtgaga caattgttat tgatgatgaa gaggacatag       660
aaacaaatgg aggagcagag aaaaagtctt cctgttttat cgaatgggga cttcctggaa       720
ctaaaaacaa aaccaacgat ttggatttct ccacttccag tctttcaaga agtaaggtaa       780
atgcaggaat gggtaatagt ggtatcacta cagaattgac tctgaaatac attattacta       840
atgttacaac cttagaaaca ggtataagct ctgtgaatgc tgggcaagat gtgaacataa       900
ttattacata taaaacatca ctatagaata ccaacttggg agatgtcgct aaaggacttc       960
agtcaagtaa ttttggtgtt aatatacaaa cgtacacccc atctttaact ccacagacca      1020
agactggagt aagacctttt aaccctggta gaatgaatgt ggcaggagac ttatttcaga      1080
atggagaatt tgcaactcat catagtcctg aagatgcatc tacaaagaag gctaatgtca      1140
ttcttccagt agaatcaagc aaatccttcc aagaatttta tagtacatct tgtttgtctc      1200
cctgtgaaaa caactggaat cttaaaaaag gagtttttaa taagtcaaga tgtacaattt      1260
gtagtaaatt agcagaggtc tggattttta tacctaagtt gttgtttagg ctaacagtga      1320
taattttaac ttttaagtgc tattatgtac tctttcatct acataatgca cgtgttctgg      1380
atgtataaca tgaagctgaa aggaagaata aggatatgtt agaactatct tatgggatat      1440
tttataaata aaattccatt tgcatagc                                         1468
```

```
<210> 5941
<211> 4397
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4398)
<223> n = a,t,c or g

<220>
```

<221> misc_feature
<222> (26)...(2703)
<223> similar to gi1871540 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5941
cagctcggtc gcccccaccg gccccatggc agcccccggc gccccagctg agtacggcta   60
catccggacc gtcctgggcc agcagatcct gggacaactg gacagctcca gcctggcgct   120
gccctccgag gccaagctga agctggcggg gagcagcggc cgcggcggcc agacagtcaa   180
gagcctgcgg atccaggagc aggtgcagca gaccctcgcc cggaagggcc gcagctccgt   240
gggcaacgga aatcttcacc gaaccagcag tgttcctgag tatgtctaca acctacactt   300
ggttgaaaat gattttgttg gaggccgttc ccctgttcct aaaacctatg acatgctaaa   360
ggctggcaca attgccactt atgaaggtcg ctggggaaga ggaacagcac agtacagctc   420
ccagaagtcc gtggaagaaa ggtccttgag gcatcctctg aggagactgg agatttctcc   480
tgacagcagc ccggagaggg ctcactacac gcacagcgat taccagtaca gccagagaag   540
ccaggctggg cacaccctgc accaccaaga aagcaggcgg gccgccctcc tagtgccacc   600
gagatatgct cgttccgaga tcgtggggggt cagccgtgct ggcaccacaa gcaggcagcg   660
ccactttgac acataccaca gacagtacca gcatggctct gttagcgaca ccgttttttga   720
cagcatccct gccaacccgg ccctgctcac gtaccccagg ccagggacca gccgcagcat   780
gggcaacctc ttggagaagg agaactacct gacggcaggg ctcactgtcg ggcaggtcag   840
gccgctggtg cccctgcagc ccgtcactca gaacagggct tccaggtcct cctggcatca   900
gagctccttc cacagcaccc gcacgctgag ggaagctggg cccagtgtcg ccgtggattc   960
cagcgggagg agagcgcact tgactgtcgg ccaggcggcc cgccagggggg aagtgggaat 1020
ctgcctcaac tgagagaaag cactttccac tgactcccca gctggggaat gcaagacatg 1080
gagatgactc tggagcgagc agtgagttat gctcgaggca gaccacatgc cgcccatccc 1140
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gaagagggtt aaccagcttc gtgggcatcc tcaagcttct gcagctccta aaagttcagg 1260
aatgaaggac gtttcagccg agctgtgtgt ggggggcctt gaggaaactt aggtattttg 1320
aaggacaatt gaccaacaaa ttgggaggtg ggctgaacta aatgggggta cctcggctgc 1380
tccagggtgc tgaagcaaac cagagacttg ggagactaaa aaacaaataa cagaccatac 1440
agtcaattta agaagtagga atggctggcc gggcgcggtg gctcacgcct gtaatcccag 1500
cactttggga ggccaaggcg ggcggatcac gaggtcagga gttcgagacc agcctgacca 1560
acatggtttg ctgtggaatt tgtcatctaa tgacaaactc aagaatctca tgataacaga 1620
agcattgctt acgctgacgg agaatatcat catccccttt tctgggtggc ctgaaggaga 1680
ctacccaaaa gcaaatggtt tgctcgattt tgacatattc tacaacgtca ctggatgcct 1740
aagaaacatg agttctgctg gcgctgatgg gagaaaagcg atgagaagat gtgacggact 1800
cattgactca ctggtccatt atgtcagagg aaccattgca gattaccagc cagatgacaa 1860
ggccacggag aattgtgtgt gcattcttca taacctctcc taccagctgg aggcagagct 1920
cccagagaaa tattcccaga atatctatat tcaaaaccgg aatatccaga ctgacaacaa 1980
caaaagtatt gggatgtttt ggcagtcgaa gcaggaaagt aaaagagcaa taccaggacg 2040
tgcccgatgc cggaggaaaa gagcaacccc aagggcgtgg agtggctgtg gcattccatt 2100
gttataagga tgtatctgtc cttgatcgcc aaaagtgtcc gcaactacac acaagaagca 2160
tccttaggag ctctgcagaa cctcacggcc ggaagtggac caatgccgac atcagtggct 2220
cagacagttg tccagaagga aagtggcctg cagcacaccc gaaagatgct gcatgttggt 2280
gacccaagtg tgaaaaagac agccatctcg ctgctgagga atctgtcccg gaatctttct 2340
ctgcagaatg aaattgccaa agaaactctc cctgatttgg tttccatcat tcctgacaca 2400
gtcccgagta ctgaccttct cattgaaact acagcctctg cctgttacac attgaacaac 2460
ataatccaaa acagttacca gaatgcacgc gaccttctaa acaccggggg catccagaaa 2520
attatggcca ttagtgcagg cgatgcctat gcctccaaca aagcaagtaa agctgcttcc 2580
gtccttctgt attctctgtg ggcacacacg gaactgcatc atgcctacaa gaaggctcag 2640
tttaagaaga cagattttgt caacagccgg actgccaaag cctaccactc ccttaaagac 2700
tgaggaaaat gacaaagtat tctcggctgc aaaaatcccc aaaggaaaac acctatttt 2760
ctactaccca gcccaagaaa cctcaaaagc atgccttgtt tctatccttc tctatttccg 2820
tggtcccctg aatccagaaa acaaatagaa cataatttta tgagtcttcc agaagacctt 2880

```
tgcaagtttg ccaccagtag ataccggcca caggctcgac aaatagtggt ctttgttatt    2940
agggcttatg gtacatggct tcctggaatc aaaatgtgaa ttcatgtgga agggacatta    3000
atccaataaa taaggaaaga agctgttgca ttactgggat tttaaaagtt tgatttacat    3060
ttatattcct tttctggttc ccatgttttg tcactcatgt gcacattgct tcgccattgg    3120
gcctccagtg tattgttctg cagtgttgaa acagaatgga aatgacaaga aatatctgca    3180
gttatccagg gagaaagtat aatgggcaaa attattggtt tctttcttta ctttgtgctt    3240
gtttttatcc ccttgggggnt gttttttctct ggatttttaa ataaacttac acttaagaaa   3300
tttagattac cagagtatgc ctgactgtaa gaaaaagaaa ttgagaggaa gtgatcatag    3360
caaattaaag aagtcttttc ctcccagaac ttaaagtaaa ataaaaaata aataaataaa    3420
taaaatcttt tccacagaga aaggcaactg tgatgataaa atttaacgtt cccccaaaca    3480
ctgagtcaat gagatttttc tcaggagata ctttacctat aacaacgccg ttaaatccaa    3540
atctcttcta aacgatggca ttctatgtaa tgcctttcct ggactttttt ggccactgcc    3600
ctggactagt gaaagaatgg actctatctt tatctgcaag aggaactaag gccttctatc    3660
agactgcctg gccagcctgg ggcactgaaa atacggctca tgttaatgag ttacattatc    3720
agccagccca gccttgccca ccatttaaga aatatcacag agccactaga tctcatatga    3780
tcttcttcaa gccattattt taactcaaga aaactctaga gaagaaagt gaagaagtca    3840
tgttgaagaa gatgtaagaa tgtgtcaaga ccatccagaa atgatatgag aaatactgat    3900
attttaaatg gttgacatca tccagcgaaa tgaatctaca ttaaatgttg ttttaactgc    3960
gctatggatt aaaaccattc atataggagt taggtcttta ccaactacta ttctgttatt    4020
ttttttttta atctggacaa catttgtccc taggtaggtt agggcaaaaa aattctttca    4080
actccttttg gcgaagaaaa ctgtaacaga aaataaattt tgaatgtgta cttaagtctt    4140
tattatattt gaaacaattt ttttttcaat tttaaaagct gaatgaagac aacttaggtt    4200
gcctaaccta gttcaaaatg aaattatta gataccaatt tttaaaatac tggagagaat    4260
ttatatgtct tttttccagag ttctgatgat aagcatttgg agtgcattta ttcctccaga   4320
taataaatgt gtgttcagaa ctttttgtgt tttttaaggc attaataaag ccttcgataa    4380
tattaaatac aaaaaaa                                                    4397
```


        <210> 5942
        <211> 1978
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (524)...(19)
        <223> similar to gi5734705 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 5942
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attcccgggt cgacgatttc gtaaggagat tcggaggaca aagcgagctg ttagggagta      60
tttgggagtg gatttggggg ctgaatgcag atcttggtat tgggagggtt tgcatcacgt     120
ggcaggtgcg agcccagaga gaccggcgca gggatcctga tcttgaaaga ttgggagagg     180
gcaggaggcc agtctctatg ggggcggttc ccgtaggatc accaggtggg ttcgcgtgcc     240
cagattgact gcttgtgggt ggcatggcct caggtggaga ggcttgctgc ggactcaggc     300
tggcgaatag ccctggcgaa caacgggcgg aggggaaggt gtctttcaag tcggtattta     360
ctctgaactg agggaagaaa agaacggagg ccgcgtcaga ccgagagctg ctctgcggcg     420
gccagagagg gaatcccaag ctcttaatgg gcggggtgg gggtagaaat gtctttttct     480
attgtgtttg agaccggtaa tattggggag ggggagaaca agtattatcc cacgcagtac     540
accccaatct cccagttcat ttcctaatcc ttaaactccg gtttcaaact ccctcgcttt     600
gctcttcagt tgcaggttcc gatctttggg tactccagga gctgttctat agcccctgct     660
```
```

```
tctggaccta tggattctcc atctagcgtt tcttcctatt cctcctactc tctctcttcg      720
tcttttccca cctccccagt gaacagtgac tttggcttcc cctctgatag tgagagggag      780
gacaagggg cccatgggcc caggccagac actgttgggc agaggggagg ttcacggccc      840
agcccgggtc ctatccgctg caggcatcga tcgaaggttt ccggtaacca gcatacacca      900
tctcatccga aacagcgggg ttcggcttct cctatggcag gatctggggc gaaaagatca      960
agagatggtg aactggagac cagtctaaac acccaaggtt gtaccacaga gggagacctg     1020
ctgtttgccc agaagtgtaa agaactccaa ggatttatac ctcctctcac agacctactc     1080
aatgggctga agatgggtcg ttttgagaga ggattaagca gttttcagca gagtgtggca     1140
atggacagga tccagcgtat tgtaggtgtt ttgcagaggc cacagatggg ggaacgttac     1200
ctaggaacct tgctacaggt agaagggatg ttaaagactt ggtttccaca aatagctgcc     1260
cagaagtcat cattgggtgg tggcaagcat cagctgacca agcatttttcc aagccaccac     1320
agtgattcag ctgcttcctc tcctgcatct cctatggaaa agatggacca gacacagcta     1380
ggacatctag ctttaaaacc aaagcagcct tggcacctca cacaatggcc agctatgaac     1440
ctcacctgga tccacaccac tccaatttgc aacccccctc tcagctcccc aggtactatc     1500
tcctttagcc atggtccttt aggcactgga accggcattg gcgtcattct tttcctccag     1560
catggagtgc aacccttcac ccactctgcc ccaaccaccc agtcccacct actacagcat     1620
ctcctgttca ttccctggtg agcctatgaa actatctgga gagggtcctc gttgctacag     1680
tttgcccagt aactctgcca ttcaggactg gagctatacc ctatcccctc ccagtctacc     1740
caccttggcc agaaagatga ccataggaca ccgggagcag cagagaagcc atcctccagt     1800
tgctgctgat gctcatcttc tcaaccttct agcccagggc atacagctgt ccactgtgac     1860
ttctaatttg tgtaaatatt tatgtatata tgtattttta ctattaatgt gtgcatttgt     1920
gttgagggaa gataaatcct ttctgattaa agaaattttt ttatacctaa aaaaaaaa     1978
```


<210> 5943
<211> 2000
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2001)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (141)...(1587)
<223> similar to gi3510234 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5943

```
aagaatgctt gcctctctgg ggcttgagtt tgaaaggcgc cacgaggggc cgggtagcca      60
gccctcaagt taagtgcact agcccacggg ttcccgaaaa ggtgggattg gatagctcat     120
gctccatctc cccgccacag catggcacct tgggcagtgg ccgctcctcg gacaaaggcc     180
cgtcctggtc cagccgctca ctgggtgccc gttgccggaa ctccatcgcc tcctgtcccg     240
aggagcagcc ccacgtgggc aactaccgcc tgctgaggac cattgggaag ggcaactttg     300
ccaaagtcaa gctggctcgg cacatcctca ctggtcggga ggttgccatc aagattatcg     360
acaaaaccca gctgaatccc agcagcctgc agaagctgtt ccgagaagtc cgcatcatga     420
agggcctaaa ccaccccaac atcgtgaagc tctttgaggt gattgagact gagaagacgc     480
tgtacctggt gatggagtac gcaagtgctg gagaagtgtt tgactacctc gtgtcgcatg     540
gccgcatgaa ggagaaggaa gctcgagcca agttccgaca gattgtttcg gctgtgcact     600
```

```
attgtcacca gaaaaatatt gtacacaggg acctgaaggc tgagaacctc ttgctggatg    660
ccgaggccaa catcaagatt gctgactttg gcttcagcaa cgagttcacg ctgggatcga    720
agctggacac gttctgcggg agcccccat atgccgcccc ggagctgttt cagggcaaga    780
agtacgacgg gccggaggtg gacatctgga gcctgggagt catcctgtac accctcgtca    840
gcggctccct gcccttcgac gggcacaacc tcaaggagct gcgggagcga gtactcagag    900
ggaagtaccg ggtccctttc tacatgtcaa cagactgtga gagcatcctg cggagatttt    960
tggtgctgaa cccagctaaa cgctgtactc tcgagcaaat catgaaagac aaatggatca   1020
acatcggcta tgagggtgag gagttgaagc catacacaga gcccgaggag gacttcgggg   1080
acaccaagag aattgaggtg atggtgggta tgggctacac acgggaagaa atcaaagagt   1140
ccttgaccag ccagaagtac aacgaagtga ccgcaccta cctcctgctg ggcaggaaaa   1200
cttaggaggg tggggaccgg ggcgccccag ggctggccct ggcacgggtg cgggcgccca   1260
acgacaccan caacggaaca agttccagca aaggcaccag ccacagcaaa gggcagcgga   1320
gttcctcttc cacctaccac cgccagcgca ggcatagcga tttttgtggc ccatcccctg   1380
cacccctgca ccccaaacgc agcccgacga gcacggggga ggcggagctt aaggaggaac   1440
ggcttccagg ccggaaggcg agcttcaagc accccgggga gtgggagtcg agggctgccc   1500
cccctccagc cccatggtca gcagcgccca caaccccaac aaggcagaga tcccagagcg   1560
gcggaaggac agcacgagca cccccaacaa cctccctcct agcatgatga cccgcaggaa   1620
cacctacgtt tgcacagaac gcccgggggc tgagcgcccg tcactgttgc caaatgggaa   1680
agaaaacagc tcaggcaccc cacgggtgcc ccctgcctcc ccctccagtc acagcctggc   1740
acccccatca ggggagcgga gccgcctggc acgcggatcc accatccgca gcaccttcca   1800
tggtggccag gtccgggacc ggcgggcagg gggttggggg tggtttttca acaaacacgc   1860
cctccaaaga gcaccccgaa atgcaggggc accatcactg atgcccggac acagaacggt   1920
cctcataaat tatggggggg ggcaagatct taaaaactgg gaaacatgcc ttgccgcccc   1980
tccgaataag catagaagga                                               2000
```

<400> 5944

```
tttcgcgtgt gtttagttgt atgagtagat gggagcccta ggaagagagt agacaatata    60
aactgggccc agcactgggt ccaggtaac cctaacattc aaaatggggg acaggagca   120
ggcaaaagag gctgagaagg agcatccaga gaggtagggg ggaaactggg aggatggttg   180
ctcaggaaag aggggagctg actcagccac gcttctcctg gtcccctttg ccttctggtc   240
taaggtatgg ttcagggtgg gtgttcagga gggagaaacc cttcggcctc ccccttccct   300
atccctcttc cctctctccc tacccttttc tttctcccgg cttcttcctc ccctgcctct   360
gtcctttcta cccttcctcc ctcgcagccc tctctactcc accccattcc ttctccttcc   420
ctccagtatt ttggttcccc ccacctgtag gcccaggctg aagcccagag ggaacatgaa   480
ggagccgtgc agctgctgga ggtagggcgc ctggaagtgg cccccagttc caccatcttg   540
ggaggaaggc gggggtcctc cagatagagc tgaaatggac tatggcggtg gggagagggg   600
ttgcaggagg ggcccttaaa tgctccagga cctggggggag tcccctccac cactggccta   660
tttctcaggg tgggcacggc tgggcagggg gctcccaagt ctggtggcag cagtctccca   720
ttgctgccac ccccagaggc tgccttcacc ctgagatatc cttccattta ggaactgcta   780
```

```
gtcagtccag ggagctgact ggatgatatc cacttaggcc cccttctccg cctccctctc    840
tgggttagca acccacagcg ctcagggttc taacctgttc tctgcttcct ttcctgcaac    900
agtctacctt ggattccatg caggtagcgc ctcgttctcc acttccccac acctctccag    960
gctggctgag ttgcatctcc tccctcaggg cccaggcagt ccccctctct catccagcag   1020
aggggggtgtc actgggagca ggcatgagaa tccataggggg gtggagtttc cacaggacac   1080
gtgcggctgt ccccttgtcc caggc                                         1105
```

<210> 5945
<211> 6215
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (295)...(5000)
<223> similar to gi2224585 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5945
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cccgcaattc ccgggtcgac gattatctgg gcacccggca gccacagcgc agcgagagcg     60
gacggtcgcc atggttccct ccccagccag tcccaggcgc ccggtgcact atgcggggca    120
cgtgcgcccc ccagctctaa tctgcgcgct gacaggagca tgatctgtgc ccaggccagg    180
gctggcaaga atctgtacca caacaggttt ttaggcctgg ccgccatggc gtttccttct    240
agaaactccc agagcctacg ccggtgcaag gagccgatcc gatacagcta caaccccgac    300
cagttccaca acatggacct caggggcggc ccccacgatg gcgtcaccat tccccgctcc    360
accagcgaca ctgacctggt cacctcggac agccgctcca cgctcatggg caggagctcc    420
tactattcca tcgggcactc tcaggacctg gtcatccact gggacataaa ggaggaagtg    480
gacgctgggg actggattgg catgtacctc attgatgagg tcttgtccga aaactttctg    540
gactataaaa accgtggagt caatggttct catcggggcc agatcatctg gaagatcgat    600
gccagctcgt actttgtgga acctgaaact aagatctgct tcaaatacta ccatggagtg    660
agtggggccc tgcgagcaac cacccccagt gtcacggtca aaaactcggc agctcctatt    720
tttaaaagca ttggtgctga tgagaccgtc caaggacaag gaagtcggag ctgatcagc    780
ttctctctct cagatttcca agccatgggg ttgaagaaag ggatgttttt caacccagac    840
ccttatctga agatttccat tcagcctggg aaacacagca tcttccccgc cctccctcac    900
catggacagg agaggagatc caagatcata ggcaacaccg tgaaccccat ctggcaggcc    960
gagcaattca gttttgtgtc cttgcccact gacgtgctgg aaattgaggt gaaggacaag   1020
tttgccaaga gccgccccat catcaagcgc ttcttgggaa agctgtcgat gcccgttcaa   1080
agactcctgg agagacacgc catagggggat agggtggtca gctacacact ggccgcagg   1140
cttccaacag atcatgtgag tggacagctg caattccgat ttgagatcac ttcctccatc   1200
cacccagatg atgaggagat ttccctgagt accgagcctg agtcagccca aattcaggac   1260
agccccatga acaacctgat ggaaagcggc agtggggaac ctcggtctga ggcaccagag   1320
tcctctgaga gctggaagcc agagcagctg ggtgagggca gtgtccccga tcgtccaggg   1380
aaccaaagca tagagctttc cagaccagct gaggaagcag cagtcatcac ggaggcagga   1440
gaccagggca tggtctctgt gggacctgaa ggggctgggg agctcctggc ccaggtgcaa   1500
aaggacatcc agcctgcccc cagtgcagaa gagctggccg agcagctgga cctgggtgag   1560
gaggcatcag cactgctgct ggaagacggt gaagccccag ccagcaccaa ggaggagccc   1620
ttggaggagg aagcaacgac ccagagccgg gctggaaggg aagaagagga gaaggagcag   1680
gaggaggagg gagatgtgtc caccctggag cagggagagg gcaggctgca gctgcgggcc   1740
tcggtgaaga gaaaaagcag gccctgctcc ttgcctgtgt ccgagctgga gacggtgatc   1800
gcgtcagcct gcggggaccc cgagaccccg cggacacact acatccgcat ccacaccctg   1860
```
```
                                      4478
```

```
ctgcacagca tgccctccgc ccagggcggc agcgcggcag aggaggagga cggcgcggag   1920
gaggagtcca ccctcaagga ctcctcggag aaggatgggc tcagcgaggt ggacacggtg   1980
gccgctgacc cgtctgccct ggaagaggac agagaagagc ccgaggggc tactccaggc    2040
acggcgcacc ctggccactc cggggccac ttccccagcc tggccaatgg cgcggcccag     2100
gatggcgaca cgcaccccag caccgggagc gagagcgact ccagccccag gcaaggcggg   2160
gaccacagtt gcgagggctg tgacgcgtcc tgctgcagcc cctcgtgcta cagctcctcg   2220
tgctacagca cgtcctgcta cagcagctcg tgctacagcg cctcgtgcta cagcccctcc    2280
tgctacaacg gcaacaggtt cgccagccac acgcgcttct cctccgtgga cagcgccaag   2340
atctccgaga gcacggtctt ctcctcgcaa gacgacgagg aggaggagaa cagcgcgttc   2400
gagtcggtac ccgactccat gcagagccct gagctggacc cggagtccac gaacggggct   2460
gggccgtggc aagacgagct ggccgcccct agcgggcacg tggaaagaag cccggaaggt   2520
ctggaatccc ccgtggcagg tccaagcaat cggagagaag gtgaatgtcc tatactccat   2580
aattcccagc cagtaagcca gcttccttcc ctgaggcctg aacatcatca ctacccaaca   2640
atcgatgagc ctcttccacc aaactgggaa gctcgaattg acagccacgg gcgggtcttt   2700
tatgtggacc acgtgaaccg cacaaccacc tggcagcgtc cgacggcagc agccaccccg   2760
gatggcatgc ggagatcggg gtccatccag cagatggagc aactcaacag gcggtatcaa   2820
aacattcagc gaaccattgc aacagagagg tccgaagaag attctggcag ccaaagctgc   2880
gagcaagccc cagcaggagg aggcggaggt ggagggagtg actcagaagc cgaatcttcc   2940
cagtccagct tagatctaag gagagagggg tcactttctc cagtgaactc acaaaaaatc   3000
accttgctgc tgcagtcccc agcggtcaag ttcatcacca accccgagtt cttcactgtg   3060
ctacatgcca attatagtgc ctaccgagtc ttcaccagta gcacctgctt aaagcacatg   3120
attctgaaag tccgacggga tgctcgcaat tttgaacgct accagcacaa ccgggacttg   3180
gtgaatttca tcaacatgtt cgcagacact cggctggaac tgccccgggg ctgggagatc   3240
aaaacggacc agcagggaaa gtcttttttc gtggaccaca acagtcgagc taccactttc   3300
attgacccc gaatccctct tcagaacggt cgtcttccca atcatctaac tcaccgacag    3360
cacctccaga ggctccgaag ttacagcgct ggagaggcct cagaagtttc tagaaacaga   3420
ggagcctctt tactggccag gccaggacac agcttagtag ctgctattcg aagccaacat   3480
caacatgagt cattgccact ggcatataat gacaagattg tggcatttct cgccagcca    3540
aacattttg aaatgctgca agagcgtcag ccaagcttag caagaaacca cacactcagg    3600
gagaaaatcc attacattcg gactgagggt aatcacgggc ttgagaagtt gtcctgtgat   3660
gcggatctgg tcattttgct gagtctcttt gaagaagaga ttatgtccta cgtcccctg    3720
caggctgcct tccaccctgg gtatagcttc tctccccgct gttcaccctg ttcttcacct   3780
cagaactccc caggtttaca gagagccagt gcaagagccc cttcccccta ccgaagagac   3840
tttgaggcca agctccgcaa tttctacaga aaactggaag ccaaaggatt tggtcagggt   3900
ccggggaaaa ttaagctcat tattcgccgg gatcatttgt tggagggaac cttcaatcag   3960
gtgatggcct attcgcggaa agagctccag cgaaacaagc tctacgtcac ctttgttgga   4020
gaggagggcc tggactacag tggcccctcg cgggagttct tcttccttct gtctcaggag   4080
ctcttcaacc cttactatgg actctttgag tactcggcaa atgatactta cacggtgcag   4140
atcagcccca tgtccgcatt tgtagaaaac catcttgagt ggttcaggtt tagcggtcgc   4200
atcctggggt ctggctctga tccatcagta ccttcttgac gctttcttca cggaggccct   4260
tctacaaggc actcctggag actgccctgt ggattttgag tgacctggaa tatttggatg   4320
aggaattcca ccagagtttg cagtggatga aggacaacaa catcacagac atcttagacc   4380
tcactttcac tgttaatgaa gaggtttttg gacaggtcac ggaaagggag ttgaagtctg   4440
gaggagccaa cacacaggtg acggagaaaa acaagaagga gtacatcgag cgcatggtga   4500
agtggcgggt ggagcgcggc gtggtacagc agaccgaggc gctggtgcgc ggcttctacg   4560
aggttgtaga ctcgaggctg gtgtccgtgt ttgatgccag ggagctggag ctggtgatag   4620
ctggcaccgc ggaaatcgac ctaaatgact ggcggaataa cactgagtac cggggaggtt   4680
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agcagaggct gagattactg cagtttgtca cgggaacatc cagcgtgccc tacgaaggct   4800
tcgcagcccc accgtgggag ccaatggggc ttcggcgctt cctgccatag aagaaatggg   4860
ggaaaattac ttctctcccc cccaggggaa cacacatgcc ttcaaccgga ctgggatctt   4920
ccaaccgtat cccctcgtac tcccatgttg tatgaaaaag ctgttaacag caagtagagg   4980
aaaccagcac ctttgggact tgagtgagga catggaacct cgcctgacat tttccctggc   5040
cagtgacatc acccttcctg ggatgatccc ctttccctt tcccttaatc aactctcctt    5100
tgattttggt attccatgat ttttatttc aaaccaaatc aggattgaca aaagctgtgc    5160
atgaagaact gccttcttct aagatctaac cttcaggctt ctctcctctg ttttcaatga   5220
actgctagcc tgtatgcaat attaaaaaac agctgtctca aggtctgtgt atatctccac   5280
```

                                    4479

```
atacctccat tactaacaat gaaatatgaa tgcaagttaa gctacacttg accaaatggt      5340
aataaatgtt tacttccatt tctatcattg aagggaaaat gtgagcatta agcactccag      5400
gctttcatat gcccatgtct tctgagcaga gccaccattt tttataattt ctaataacca      5460
actccagaac taggagctga tcaactcttt gttttcctct ccatctactt ttccctgtgc      5520
ataatatcca tccaaaggac aacagtggca aagctgaaat ttttatacat tcaactcatg      5580
attcacatgt ggcatcagtc ccatcagccg gaactagcct agacatacgg tgcaaatatg      5640
acacttctaa cgattaacaa cagcaagaaa acacctgctg ctgatgcaat gcaatgcatc      5700
ccaatggttg tggggattgt gggctcaact caagagaagt ttaggagggg gagcatccct      5760
agtgaatact cacaccacaa gaaggacaaa cttgtgcaca tgtccaagaa agaaagcttc      5820
ttgattgagg tagcataaag gatgaggctt cagcccccat tgtcttatgt agaatgtggc      5880
aatgccaact ggagaaaggg aagaaggaca tattaccttg gtttgaatcc ctgagttctg      5940
tactgttctg ttttgtttag tctagccaca gttcttcaca aaggaaaaaa aaatgtgtag      6000
atgataccat gacttttgtt aaagccatga cttttgtttg cttggcagac aaaccctttt      6060
tttaaaactt tgatattttt ttttcacgtt tttttttcct tttcctttct taatcatgga      6120
gttcaagttc ctttgcattc gattgtccat cgggaccaca ctaggaagct gcagagagta      6180
atggtgcttg ttagggatca agggcaacat ctatt                                 6215
```

```
<400> 5946
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tggctgtatc acccaggctg gagtgtatgg cacaaccatt gctcactgcg gcctcaacct       120
cctgggctca agtgatcctc ccgcctcagg ctcccaaagt gctgggatag caggcatgag       180
ctgtcgcacc tagccagcaa tatacaacct tgaagggtta atagtgacat ggacagaggc       240
aaggtgccca gttacacatt ttcagacatc atcttgttta ttacaaaact taaaacacct       300
tccaggcaag atccaaagca attttatcct aacattgttc accttcatct gtagagtcaa       360
atgtatctgc cagcttgtgt tgacaagggg gaatgcttcc catttggtca aggttgaggg       420
acagtaaagg aatcttgtat tctaatgagt acagcatcct ttcattgtcc aagccatcca       480
ccttagggct ttgaggttca agtccaggtc tggagaagag aaagtttcat acccaacctt       540
gtggtctttc cttcggtagt acattcgtgt cagcacagtc attagaaaag tctccagtat       600
gaggaggtgg caattcatca cttgagacct ggttttagag gaatagggag gcgaacaagc       660
aatctgccca ccgttggcca agactgagaa gatggagggc tgtagggcag tcaggatgag       720
gagaacctgg aacagagcaa atttggctcc catgttctgc tcacccaggt gtagcctggc       780
ttgacgggaa atgatgccca gggtccagag agccagcagt gtggacacgc cgaggaaagt       840
gttgatccat agagctgtgc tcccctcaga aatgtctgct gggtcataga tgccgtcggg       900
gatgagaaac aggcccacca gggtcagcgt tatcttcaag aaggcgtatt ggaaagggcc       960
caacatcagc agctgaagct tcttcctggt gagcagcagc cgtggacagc aggggcagca      1020
gcagcagcag gggcctgtgt ggaccatcat cggggtgtcc ctcagcgtcc tcagcactgc      1080
ctccttcccc ccaaagcctt ccaccatgac cagcatcagc aggtaaaagc acacggcata      1140
aaacgaggtg atggtcattt ccaccagcac cagggaacga gggatccaga gaccaaagca      1200
gcacagcaca gacaccaccg tgggtgccga gctcttccag agcagagtcc gcctcttgat      1260
```

```
ggggcaaagg gtgttcttgt acaggtagac ggcatcctcc aggaagatgg caatggagcc    1320
cagcgccagc aaggtcagga tgctagtgag ggcaagttcc acagggccca gggctctcag    1380
gagttgggct gctgtgggag gctgagagaa gcaggcggag gggatgccgt aattggtctt    1440
cagcacctcc agaagatctg ctgtgtacct ggggtcaagc tttatctggg tcctgcccgg    1500
ctccatcgcc gcgaattccg ccacg                                          1525
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<210> 5947
<211> 2234
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (358)...(596)
<223> similar to gi1710216 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5947
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cagatggact gacccacagg catccacatg tggtgctgaa gaagccatga ggaaaggggg      60
aggtgggaag ggcctcgtcc agggtgtctg gctgcacagg agacatagca gctcccactg     120
gcaccctgca tacaagggaa aggcctcgaa atgcgctcac caaagcctca gagtttttatt    180
atcaggagct cacattcagg agcaggtctg cttgtcaaga atccaagcac gcctgtgttc     240
tgtggccaca ggagaggagg ggccgctttt aaatacaagc ctactcctgt cgttggacca     300
gaacaaagac ctactggcca gaagcacatg agaggaggag tttcactctt gtcgcccagg     360
ctggagtgca gtggcacgat ctcggctcac tgcaacctcc gcctcccaag ttcaagcaat     420
tctcctgccc cagcctcctg attagctggg attacaggcg tgtgccacca tgcccagcta     480
atttttgtgt ttttagtaga cacggggttt caccatgttg gtcaggctgg tcttgaactc     540
ctgacgtggt gatccacctg cctcggcctc ccaaagtgct gggattacag gcgtgagcca     600
ccacgcctgg ccgaaaaacc cactctcata acagaagtgc agactcattg ctagattcag     660
tgcccttgag tgtgccagag gtcctctgtg tttgagacaa tcctgtgtgt gccaggaggc     720
tccgtgtgca ccaggggctc tcagaatccc gcttacccag ctggagacca tgcctctggc     780
agccccatct cagccagccc tgctctctcc ctcttccctc caggtgaggc aaacttcata     840
ggaatctgta cctgaatgtg agctcctgat aataaaactc tgaggctttg gtgagcgcat     900
ttcgaggcct ttcccttgta tgcagggtgc cagtgggagc tgctatgtct cctgtgcagc     960
cagacaccct ggacgaggcc cttcccacct cccccttttcc tcacggcttc ttcagcacca    1020
catgtggatg cctgtgggtc agtccatctg tccatgggca ggggccgctg tgagagaccc    1080
catgcgcgtg ggatgtggta gatgctgatt atggggccag ccacccatac aggtctatca    1140
ggtcgcaatg gaggccccac tggagcggga ggcaggctgg cctggacttc tgttggatga    1200
tggggggccag gggatggtag gaggggcagg agagcaggtc tgcatctgtc tcagccccag   1260
gagctcctgg tttggggcca gctctaagga gcttcatccc tgagcctggc cgagtataag    1320
ggggtcccgg atatccaatg ctgagaccta gacttttcta agcctctgca cccaacccct    1380
aacttggcct tttcagaccc atgagagtgc agggtgggtg tggacctgcg ccagggcttc    1440
ccagcctgat tgtgacatga tgtgagtcca cctagggagg agcaggggcc tccccgtctc    1500
ttcccccttct tgcccagacc actttgctgg gctcagagcc ttccatggct cactttgaac   1560
tcagaagagt ttcccagctg cgacccaggc tgcacccca ggcctgagga gaaactgagg     1620
ccccacatcc catacgtgtc ctctgagtca ggacaacagg ctcccggctg ggggcactgc    1680
ccttgctgcc aacacattca cctgccccag tggctaccat gtcctgtgcc ggtgaccagt    1740
gccagtcccc aacctggatg gtgccctgcc ctcatgaaga gccccccgga tgttcacctc    1800
tgcccagaga cccggcctgc ccaggaagag cagtctctgc tcttgtgtgg gtccctctgc    1860
ccccaccctg cccagggctc cccagcagcc tgaggcccct aaggaagaac agccctcaat    1920
```

```
ggtgattcta ttggtgttat gagttgtgtc cccaaagaga tatatcagtg tcctgaccca    1980
cagtacctca gaatgtgact gcatttggag atagggttct tccaggggta accaaggtag    2040
aatgaggtcg ttagtgtggg ccctaatcca atatgacggc tatccttata aaaagaggaa    2100
catttaggct ggatacagtg gctcatgcct ataatcccag caccttggga ggctgaggca    2160
ggaggacttg cttgagctca ggagttcaag accagcctgg ggcaacatgt cgaaacgctg    2220
tgtctaccaa aaaa                                                      2234



        <210> 5948
        <211> 1596
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (869)...(581)
        <223> similar to gi5911959 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 5948
ggtggaattc ctcagcaccg cctctcaaca gggatgactc agcagggatg actcagcacc      60
gcccctcaac aggcatgact ctgcagagat gactcagcac tgtcccttag cagggatgac     120
acagcaagga tgactcagca ctgcccctca gcaaggatga ctcagcactg ccgctcaaca     180
gggatgactc agggatggct tagtactgcc cctcaacagg gatgactcag cagggatgac     240
tcagcaccgc ccctcaacag gcatgactct gcagagatga cttagtactg cccctcagca     300
gggatgactc agtactgccc ctcagcaggg atgactcagc actgcccctc aacagggatg     360
actcagcagg gatgactcag cactgtccct tagcagtgat gacacagcaa ggatgactca     420
gcactgcccc tcagcaagga tgactcagca ctgccgctca acagacatga ctcagggatg     480
gcttagtact gcccctcagc agggatgact cagcaccgcc cctcaacagg gatgactcag     540
cactgcccct caacagggat gactcagcag ggatgactca gcactgtccc ttagcagcga     600
tgacacagca aggatgactc agcactgccc ctcaccaagg atgactcagc actgccgctc     660
aacagacatg actcagggat ggcttagtac tgcccctcag cagggatgac tcagcaggga     720
tgactcagca ccaccctca acagggatga ctcagcaggg atgactcagc actgcccctc     780
aacagggatg actgcaggga tgactcagca ctgcccctca gcagggatga ctcagcactg     840
cccctcagca gggatgactc agcagggatg actcagcacc gcccctcaac aggcatgact     900
ctgcagagat gactcagcac tgcccctcag cagggatggc tcagcaggga tgactcagca     960
ttgcccctca acagggatga ctcagcagac tcagcaggga tgactcagca ctgcccctca    1020
acagacatga ctcagcaggg atgactcagc accaccctc agcaaggatg actcagcagg    1080
gatgattcag cagagataac tcggggatga ctctgattgt ccttcagcag ggatgagtct    1140
gttttgctcc gatggaagca tctgtagtgt ccatcagcag gtgaatggcc aaagtggtat    1200
atactgtagt cacattcagc tataaaaagg aataaagtat cgatgcatgc cacaacatgg    1260
gtgaacctag aaaatactga tctaaatgca agaagccagg cacaaaaggc cacatagtat    1320
atgttcccat ttatgtgaaa tgtgcagaat aataataaaa atgtatagaa tagcaaatct    1380
gtagggacag acatgaggtg agtggttgcc agaagtggaa atgggagtta actataaatt    1440
gcacagggta ccttacagag atgatggaaa tgtcctaaaa ctagattatg gcaatagttg    1500
cactacgtga tcagtttatt aaaaatcgtt gatgtgtgtg tgtaaaatgg tggatttta    1560
tggtttataa attataccct aataaaggtt aacaaa                             1596
```

4482

<210> 5949
<211> 599
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)...(438)
<223> similar to gi995526 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5949
```
actaaatgtg ccagtaccag aaattccagg aaaaacaaga aatttgtttt tgcaattagc      60
caagcatgta gcccagtctc tcaatgtcac ttcatgttat gtatgtggag aagctgtaat     120
aagagatcaa tggccatggg aagcctgaga attagtacct acagtacctg atgaattcct     180
ggctcaaaag aatcaccctg ataatttctg atcctaaaag cctcaattat taaacaatat     240
tgcatagcta gagaaggaaa agaattcact caccgcgtag gatgacttag ttgtcggaga     300
cagaaactgt ataatggtac cacaaaaaca atcacttggt ggagttcaaa tcacacagag     360
agaaaattta gtaaattctc aaagttgcaa actgggaccc acctgggagt cccaccgggc     420
ttgggaacag cccccactgg gattttact gggatatgtt agggcttgga gcttattgac     480
aggtttactg gaccattggg caggtagttg ttgtttattg ggcactattt aaaccatctt     540
tcttccctac tgccccataa aaacagggca aactccttgg ggtttcccct gttcttacg      599
```


<210> 5950
<211> 3318
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (114)...(1736)
<223> similar to gi755750 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5950
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gagcttgcgc cagtctcttc gcggcgtcca ccacttagac gcaagttgct gaagccggcc      60
ggggagaagg tgttgttgcc ggagctgaga ccgggcggcc acagtccgca gggatgaacc     120
tcgagttgct ggagtccttt gggcagaact atccagagga agctgatgga actttggatt     180
gtatcagcat ggctttgact tgcacctta acaggtgggg cacactgctt gcagttggct     240
gtaatgatgg ccgaattgtc atctggggat ttctttgaca agaggcattg cttaaaataa     300
atttagtgca cacatccatc cagtgtgttc tttatgctgg agccgagatg gtcataaact     360
cgtgagtgct tccactgata acatagtgtc acagtgggat gttctttcag gcgactgtga     420
ccagaggttt cgattccctt cacccatctt aaaagtccaa tatcatccac gagatcagaa     480
caaggttctc gtgtgtccca tgaaatctgc tcctgtcatg ttgacccttt cagattccaa     540
acatgttgtt ctgccggtgg acgatgactc cgatttgaac gttgtggcat cttttgatag     600
gcgaggggaa tatatttata cgggaaacgc aaaaggcaag attttggtcc taaaaacaga     660
```


4483

```
ttctcaggat cttgttgctt ccttcagagt gacaactgga acaagcaata ccacagccat    720
taagtcaatt gagtttgccc ggaaggggag ttgctttta attaacacgg cagatcgaat    780
aatcagagtt tatgatggca gagaaatctt aacatgtgga agagatggag agcctgaacc    840
tatgcagaaa ttgcaggatt tggtgaatag gaccccatgg aagaaatgtt gtttctctgg    900
ggatggggaa tacatcgtgg caggttctgc ccggcagcat gccctgtaca tctgggagaa    960
gagcattggc aacctggtga agattctcca tgggacgaga ggagaactcc tcttggatgt   1020
agcttggcat cctgttcgac ccatcatagc atccatttcc agtggagtgg tatctatctg   1080
ggcacagaat caagtagaaa actggagtgc atttgcacca gacttcaaag aattggatga   1140
aaatgtagaa tacgaagaaa gggaatcaga gtttgatatt gaagatgaag ataagagtga   1200
gcctgagcag acaggggctg atgctgcaga agatgaggaa gtggatgtca ccagcgtgga   1260
ccctattgct gccttctgta gcagtgatga agagctggaa gattcaaagg ctctattgta   1320
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tgcagtccaa acctccttga tggatgaagg ggctagttca gagaagaaga ggcagtcctc   1440
agcagatggg tcccagccac ctaagaagaa acccaaaaca accaatatag aacttcaagg   1500
agtaccaaat gatgaagtcc atccactact gggtgtgaag ggggatggca aatccaagaa   1560
gaagcaagca ggccggccta aaggatcaaa aggtaaagag aaagattctc catttaaacc   1620
gaaactctac aaaggggaca gaggtttacc tctggaagga tcagcgaagg gtaaagtgca   1680
ggcggaactc agccagccct tgacagcagg aggagcaatc tcagaactgt tatgaagacc   1740
ttcgaagttc ttcattcttt ctcactttgc catcatgtgg cctctggaca ctgtggtcag   1800
tcatttgaaa attgacttta atttaaaaca aaggcctgtg cctcccaccc aggaggtggg   1860
agggtgaatt ttatgtttaa atgaagaagt gaattatgga agaagagtat acgaccttcc   1920
cttccctttc aagcataagt ccaaatagac tctcaggaat gaagatttgt gaagacatca   1980
gataggaatt ttgactcatt taaactttga tgcttagtta tgttgctgga gaaaagatac   2040
ttatgttttg ctcatctaac ttcattgtac ccagcgtcat tttgacatgt catttcctat   2100
ctcccatttg ccttcggtcc tcaatgcatg tctttgagtg acttcttatc tgaaattttg   2160
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agatttcaaa ttttcagaaa gggaacaacg aaggccctct cttcctctca taccacgttt   2340
tgctcaagaa gctgggctgt aacaattcag ggtttttccct tgtttcctc tcattgcatg   2400
tttccctcca atattggttc attgtcatca atcatggttt ttgaagatag ctagttttat   2460
ccatctccag caaagaatca tcaatagttt atattgcttt acctgtgctg gcttccagag   2520
atggaaacaa acccaggtgt ctctcaacaa gctactttt tactggggtg ggggaatcta   2580
tgcaaggagt aaagtaaaac catccagaat caaagcagca accacatagt tcaaatcaaa   2640
gatcaaggtg aatttttgt atcactgcct gtggaaatct atcctcatca gtcattgcat   2700
ttttccctgc ctatacctgt gctcctttt cttactgtgt tttcagtcac ttccttctg   2760
tgaaaggttg cttagctttt tttttgacat ttgttgttct ttatataaaa ataacagatt   2820
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tgaaaagggc tcagtagctt ctctgagtgg cgttttttagc tgactggaag tgcttaatct   2940
ggatcgtctt tttttttttt ttttttttc aatattttaa aaggagaatt taaatactgt   3000
gcttactgtg aaatatatca gttggtgagc cgggcgtggt gggtcacgcc tgtaatccca   3060
gcactttggg aggccaaggc gggttgatca cccgaggtca ggagttcaag accagcctgg   3120
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tgcctgtaat cccagctaca ctggaggctg agtcaggaga atcacttgaa cgtgggaggc   3240
agaggttgca gtgagtggag atcgcaccac tgccctccag cctaggtgac agaatgagac   3300
tctatctcaa aaaaaaaa                                                 3318
```

<210> 5951
<211> 861
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<400> 5951

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ctacaccttt accgagtggc gctccttcct ggacgtgccg gctgagctgc agcccgagcc     180
gctggagcca cagcagccag aggcaccgtc tggggcctcc gagccagggt ccggggatgc     240
caagaaagag ccaggcgccg agtgcttcca cttctcgctg tgcctgcccc cgggcctgca     300
gcctgaggac gaagaggacg ccgacgagcg cggcgtcgcg gtccacttcg ctgtctgcta     360
ccgctgcgcg cagggcgagt actgggacaa caacgcgggc gccaactaca cgctgcgcta     420
cgcgcgccct gcggacgcgc tctgagcctg gagagtttcg aagagccgtg gggcggggtt     480
gattagcacg tggagctcgg gctgccgcct caaggaactt gctgggacgc tttgctgagc     540
gtggcgagtc tggcgtgagg ggcgcgtgga gggaaaggag ggagactttg aaccgtcgac     600
tcgcaccccc gcagacaagt gagcgagctt agagagcccg ggcaatgctc cgaaagcctc     660
tgacctcagt cttctcgtcc gtttgacctt cctacaaggc ctctagaatt cccagcctgc     720
gtcagagtag gaagaaactt ccaaggcccg gagcagctgc ctccaagaaa aaggctccca     780
actcccgggc atggttctaa ggccttggga ttggttttta actctaaata tcatattgta     840
gcccttgcag tttgctggag a                                              861
```

<210> 5952
<211> 1345
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1210)...(845)

<400> 5952

```
tttttttttt ttcacaatga ttgtacttta ttgatgtgtt acaggaggta aggactttct      60
gcttaaaata tttaaaattt acatgtgcac acaaacaaac acaggttccc ccacccatgg     120
ggaagggcga gatgactctg aataaaggat ggaggagaag aagagggtgt agacggaggg     180
cccttgaccc ctacaggggc agcaggataa ggaatagagt ggggcagaag gtgggttatt     240
aagaagcatc ttgcttactg acatgaagcc acgtgcccag cgagagcaca gatgaggcct     300
cattggcgta gaggaggccc ttggagggca ggcacacggt gcccaactag ccagccaagg     360
ccaacgtccc aggggtaggg cggaagtggg gtggcgtgca cagggcaccc agcccaggcc     420
tctgctgccc ccacctccct ccccacccctt tgagagaaaa gacggtttgg gcctcagcca     480
cggaccgacg ccgttaccgg cagcgtctcc tgaaactaca gagatacaat gtgtatcaac     540
agggtgatcg cttctgaccc actgaggcag acagctagag gtgctgcatg ggccagaacc     600
aatcctacag tatctttggt ttgtgggttt ccttcccgac ttgaatcctc cctctgtcca     660
gcctctgggg tgggcctcag ggctgggaat gggctgctca atggcccaaa gcccagcctg     720
acggcccttg gaggctgggg gtgctgccct tgccagccac aggcagctta ctcactgggg     780
tgctgggact tgtaggagag gatctcggca gccagctgct gggggtccag gagctgtggg     840
```

```
aagcgcccca tcacagcctc caccaggtgc gggggaaaca caccacacag cttagtatac    900
acgctggcct gctccttggc caggctgcct gccctgcccc acgggctcct gccagcccct    960
gggctctgca ctgggggctc ctgaaggact gatgtgggtg ggggcagtgg gtatggttca   1020
gaccagtact ctcgaggtgg aaaggcaggg ggcgcgggtg ggtagtcggc agggacactg   1080
aagtggccag cacccatggc ccggccaaag gcagagaagg ctgcggtggc tgggagctca   1140
gatccatagg gactgtagcc cgtgtaaggg gctcggggtg ggcccggctc accagggcct   1200
cctcctcgaa ccccccaaag ttccgacatc tggctctcca gggagccaat gcccgagtcc   1260
aggcaatcct gggagacgta cgggagtgag tccagcgtct gtgggagcca gtctgtgggc   1320
ccgaattcca ccgcactgta ctagg                                        1345
```

```
            <210> 5953
            <211> 1346
            <212> DNA
            <213> Homo sapiens

            <220>
            <221> misc_feature
            <222> (1306)...(399)
            <223> similar to gi535586 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
            <400> 5953
ctttacatga ccttgctgtc ctcccttccc ttctcccacc ttccagcctc tggctacaac     60
acgcgtgcag tttaaggcaa aagctcagca aacccagccc ccaggattga ggagctcccg    120
ccccccatg cagctggact ccacctcagc agaggacacc agtccagctc tcagcagtgg    180
cagctctaag cccagggtgt ccatcccgat ggtccgcata ctggccccag tcctggtgct    240
gctgagcctt ctgtcagccg caggcctgat cgccttctgc agccacctgc tcctgtggag    300
aaaggaagct caacaggcca cggagacaca gaggaacgag aagttctgcc tctcacgctt    360
gactgcggag gaaaaggaag ccccttccca ggcccctgag ggggacgtga tctcgatgcc    420
tcccctccac acatctgagg aggagctggg cttctcgaag tttgtctcag cgtagggcag    480
gaggccctcc tggccaggcc agcagtgaag cagtatggct ggctggatca gcaccgattc    540
ccgaaagctt tccacctcag cctcagagtc cagctgcccg gactccaggg ctctccccac    600
cctccccagg ctctcctctt gcatgttcca gcctgaccta gaagcgtttg tcagccctgg    660
agcccagagc ggtggccttg ctcttccggc tggagactgg gacatccctg ataggttcac    720
atccctgggc agagtaccag gctgctgacc ctcagcaggg ccagacaagg ctcagtggat    780
ctggtctgag tttcaatctg ccaggaactc ctgggcctca tgcccagtgt cggaccctgc    840
cttcctccca ctccagaccc caccttgtct tccctccctg gcgtcctcag acttagtccc    900
acggtctcct gcatcagctg gtgatgaaga ggagcatgct ggggtgagac tgggattctg    960
gcttctcttt gaaccacctg catcccagcc cttcaggaag cctgtgaaaa acgtgattcc   1020
tgggccccac caagacccac caaaaccatc tctggggctt ggtgcaggac tctgaatttc   1080
taacaatgcc cagtgactgt cgcacttgag tttgagggcc agtgggcctg atgaacgctc   1140
agacccctcc agcttagagt ctgcatttgg gctgtgacgt ctcccacctg ccccaataag   1200
atctgctctg tctgcgacac caagatccag ctggggactc ccctgaggcc tgcctaagtc   1260
caggccttgg tcaggtcagg tgcacattgc agggataagc ccaggaccgg cagagagtgg   1320
ttgcctttcc atttgccctc cctggc                                       1346
```

<210> 5954
<211> 1632
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1633)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1452)...(496)
<223> similar to gi3450828 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5954
tttttttttt ttttttttc acaaaagcca tctctcttta gtgttttcat tcctgcccgt   60
tcaaaccagt ttgtgcaagc tgaggatgag tgggttttg gaaccgggag gcagagcatc   120
tgggggacaa gaccccctcct ggaaaatggt cctnatgcaa cactgctgaa ggctggttag   180
acttgagaag caattgaaca ataaactcta cagaacctgg aaaatgttca aaagtgtcaa   240
ggtggcttct ggctgttttc ctgcctccct gtggggggtc agttatccc atcagtcctg   300
tgcaaaggtc ctggggactg gcccaggggc agccggattc ttccgctggg gacaggaagc   360
ttgtccttgc ttaaccccaa gcagaagcca tgccaaatgg aacaaggttg ctcgggttgt   420
gtgccccaag gtgctgtggc cccccaaaac tccgtggctc ctcaaagcaa tgtctttcat   480
cctgtctcta tgttatgtcc gccccttttg aaaagtgttc attcaaggtt gtaggtttcc   540
ttgagaattt tgtggatctc ctcgagtgca agcctgtgga agtatgcttt tcaagataac   600
gagggcatgc attgtccatg ggaggaggag gagggcctgg ttgagctgca cagcttccac   660
ttgttcttcc gggccaccgt ctccggcttt cagtggggga aagaggttgg gaaaacctga   720
actctcaatg cccctggaac atctcggtgc ttgttgtgga aagggcaagc actgtggtgg   780
cgcttgactc ccggacaagt cccagcaagc cccagggtc aaggctctcc atgaaggcga   840
aagctgacgc tttggaatgt gcaaattaat cgaatggcac cgggggaatg gcaagaacaa   900
tgcccagcaa cggaagttga aggcaacacg aatgtggcca ttctgctgtt tccagcataa   960
cttgccagag aagggcccct ggtggttcca aaactggccc cagggtgttg atgtgttggg 1020
acttgaggag ggcatcatca tcactgtcca ttaggccctt cccatggacc acggcggcat 1080
tgttcaccag gatggtgatg tcacccacct tctcccggac ggccttggcc gtctggtaca 1140
cctcctcccg gttgcccaca tcacagatga agtaatggca ctcagtgccc atctgccgga 1200
tctcctccgt cgtctccttc aggcatttct cagtccggcc ccagagaaca atctttctgg 1260
cgccgcgctc cgcgaactcg cgggcgagct gacgcccgat gcctctcccg ccgccggtga 1320
tgaggacgtt ctcccgcgac aggtcccgca gcttggcggg cagcaccagt ccgacggctg 1380
cttccaccac cagatagatc atctgtagag ggaacatcac cagcgcgccc agccgtttcc 1440
acaccatcct ccgcgccgcg gagccgggca gggggcgaaa ctccccgggc cgagcaatac 1500
aggaattaaa aaacacccccg aacaataaat agtaaaccga ataaggagga gagaggcgtc 1560
ccacctggcc actcttgaaa tcacctcttc ccaaatgcaa agcaccgggt gagaaaaaga 1620
agaaaaaaaa aa   1632

<210> 5955
<211> 1771
<212> DNA
<213> Homo sapiens

4487

<220>
<221> misc_feature
<222> (905)...(307)
<223> similar to gi2047353 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5955
tcactattcc atgtggcgga attcgcgcac agtaagggag aatgtgggga ctcagagcag   60
gagcctttgg agtcagagaa gttttccaga aggaacatct aagcagagcc cggctaggca   120
aagtgaactg ccatggcgag ggcctggaga cttccagaag cgtgataact gctcttaatt   180
gttcaaccct caccaggagc taagccctgt gaggtgggtg ctattagggt ccccattcta   240
cagatgagga aactgaagct caggaagtct cctggctcgc cagcaaggca gctggaggtt   300
gctgacctcc gagggaggcc ccagccaagg tgggtgctga gtgggcgccc cctcctctcc   360
cctctcaggc ccagtaccgc cgaggcctgg agctgtccaa gcaggccgct cagctgggag   420
ctacagccag aggggctggg gaggcagaac gtgcagagtt cccagagctg gcagcctttg   480
cctctaccca gcgggccttc caggctgagc tgacccactt ttacatggcg gccgagcggc   540
aacgcacgga cctcgagacg ctgctccacc tgcaccgctt ctgcaagagg atgacctggt   600
tccacatgga ctgtcaggac ctgatggccc agctcaggct ggacaagacc tcaagggtca   660
gtcctgggga ccagcgccgc ctccaccgct acctgcagcg actggcatct gagttccctg   720
ctgagaagct cgcagccgtg gggctgcagg tggcctccct gagccgggca ggcctgggcc   780
aggagctatg ggaggaggcc cggatcaggc atgaggagat ctggatgctc ctggagaagg   840
cactgaccca cagctcttgc ccagaggctc cagctgctca ctcagcgcgc ccagaacgaa   900
gaggggtggc agccaagggc cagggtgtga gtgtagaggt cacttccaag gggaggtggg   960
atcagcctcc actagactca ctgggcatgg accatttgcc aaagtcctat tggcttctca   1020
ggagctgtct cagccaagag tcacacactt gatacctaaa atggcttcag gaatcttcca   1080
agactgaaga cttccccagg tgtggtctag ggcctgcctg cctcagagcc atgagcagag   1140
ccggtcaaaa ggcttcctag ggaatcctac cccagacatt aaaatagact cttggtgctg   1200
gcaggtggct ggaatctgcg tttgtagcca agtgctcttc ctgtgtgact cagcaaagtg   1260
ggggtgcatt tggggaacac ccggggctgg ggcctgagtc ctccacccaa agccaggttt   1320
gattcttgca ttcccctccc tgccttccat ccagacaggc ccaaggatgc aagaggcgtt   1380
gatcagccca tctccatcca tgcctgttgc ctcagagagg gccgacggct tttaaaatgc   1440
tgttgccata gcaacagcat tccagccagt gggtaccaca ggcagggagc cacagaaact   1500
ggggtgctgg gatggaaact gacttgtgag agaccacagc tactgctaga aggaaggggg   1560
gcaaagcggg cacaggtaat ctaagaatac ttgggcggga ggagtcccca aggttacctt   1620
gtgcatccct ctgtccccag aaagaactgt accccaacaa tctctcccct cactgcatcc   1680
cctggggaag aagggaatgc agaaatgaaa tgtcataatg agtaacaatg tataaaaata   1740
tcgaataata acagctaaca tttcttttgc a   1771

<210> 5956
<211> 979
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (927)...(0)
<223> similar to gi386923 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5956

```
atttgacata gatctcttaa agggaattta ttgcttccat ggagatttta gatccgatgt      60
tactgaggga aattaggtag ctgggcggct ttaccccagg catctcttag taggtaaaca     120
ccttcctttt caggatggga ttcacaaggg cccttggtcg tctggaagca ccaactgaac     180
gcaggcctcg gatgatcaag acggtcccca ccacaatgcc cacgaggccc acagacaacc     240
ccagggcgca gaccacacgt ctctgtgagc tctgactaag gttgttggaa tctcagctcc     300
ccagtgtttc agaagaggct caaaccaggc ccccagttgc tccacctttg cagttcataa     360
atctcatcat tcaaaaggga aggaagggga ggtaacctga tcttgaagaa ggaaatgatc     420
actctttgga gaggaaggcc tggtctcaga aacaccttct gtgactgagt gcccattgct     480
cagccaggtg atgttgacca caggaggaaa gatgttgtcc acaagacaga tgagggtgtt     540
gggctgaccc agtgtcacgg gagacttgga aaacactgtg acctcaggaa cctcattggt     600
agcagcggta gagttggagc gtttaatcac gatgttcaag ttatgtttta gcacagcgat     660
gtttgtcagt gcaaattgcg ggtcaaatct tctaaatctg cggaacagag gcaactgcca     720
gacagtctcc ttcctctcca ggtccacata gaactcctcg tctccatcaa attcatggct     780
gtactgccca gagggaccat aagactggta caagtttaca ccgtaagagg caacatggtc     840
agccacaatg tcttcacctc cacaagggct catcacggtg gtcagggcga gggcccccag     900
catcagagct ttgtttagga tcatcctctt cccaggcag cctcagcagt tgctgttctg     960
agcgaattcc acgcacact                                               979
```

<210> 5957
<211> 1682
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (285)...(1476)
<223> similar to gi6002678 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 5957

```
tttttttttt ttgatggagt cttgctctgt cgtcaggctg gagtgcagtg gcgcgatctc      60
ggctcactcc aacctccacc tcccgggttc aaaggattcc cctgcctcag cctctcgagt     120
agctgggact acagatgcgc gctaccacac aaggctaata ttttgtattt tagtagagac     180
gggatttcac catgttggcc aggatggtct ccgtctcctg acctcgtgat ctgcctgcct     240
tggcctccca aagtgttggg attacaggca taagccattg cgccatgctc aaggttctta     300
attacatctt taaaggccct ttttccatgt acagtaacat attcaatggt tctggggatt     360
aggacttgga gccattattc tacctacaac aattagtatt ggacttccat cattttctat     420
cactcttgta atcgagaacg gactatttca ctgggagtag caagtcataa tgtttgcgtt     480
ggcatttgtg tgggggttta tcttcattca ttaaataatt gcatgtaaag aaaattcctg     540
tcactatttc aaatgtttca tgtagttatt atagtgcttc agaatccaaa gggttatgtg     600
ttacttatgt aagatgagca gtctaggggg tggagaacag gtcatctagt gcagattctt     660
cctagctgaa gtgtgttttc tctggggaca accaagtagg atttaattgt tttgcttcct     720
tttttgggaa cttagaccca tcttgcgatg tcctaagtct ccaagcatct tatttgacct     780
gcttatacac atttgactaa atagctaaat atgaccacat tgacgtggta aagctttaac     840
acttttgtcc agattgaatc actccatctg ctatcagtta agcagtggaa aactgttatg     900
gaaaagcaaa catgttttga tagatttaat gtgtaaagaa ggtatccata ctctggaatg     960
```

```
ctgctgatca ataaatgagc tgcaagactt tgttcgaaac aacactcaag cacaactgtt    1020
ttactttcca taccaagttt ggctgtgact gaaatgaaga acatcagcat tgatctttgc    1080
tttgcacttg tacaagagac tatttgcaga gagccaaata taggcaacag aggatttaat    1140
atcttgccaa aaaatacaaa atctgttccc ctttaaagca tggacactct atcctttctt    1200
gtgggatctt ggctaaaagg aaaatatagg cttttaaact cccctatttc cttctgttga    1260
aagcttaaga atcttttttca aatgagctat gtatggtttt gtggtatttt atgtttccaa    1320
aagaaaatgg ctacatgaaa aatctgtcca gtgttatcat ttttcttaca aaaaatactt    1380
ctagttatgg ttgtattaat taatttgatt gtgataatga ttacacaatg tttacctata    1440
tcaaatcatc atatcgtata ccttaaatat atataacttt tatgtgtcaa ttataactca    1500
gtaagtctgg gaaaatatcg ttaagtcaaa gattagagtc aacagaaata aagaaaaatc    1560
atactttgat aacttcagga ctaatcaagg atcaatgggt gacatgatat catgctatgt    1620
gccattttgt gttaaacaaa ttacaccaac aataaaaaaa attggcttca atcaaaaaaa    1680
aa                                                                   1682
```

```
       <210> 5958
       <211> 1188
       <212> DNA
       <213> Homo sapiens

       <220>
       <221> misc_feature
       <222> (1024)...(585)
       <223> similar to gi3169120 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters
```

```
       <400> 5958
aggacggggc ccctccatac ctggcccttt cccgtgatgt taaggtggca cggccctgaa      60
aatatatggg gtagttatcc cacccccgcg ggcagagatt caggaggggg gattgtaaga     120
gacgccctcc tctgtacgct cgatataaag agaagtcccc tcccatccct cccatgtccc     180
tttatgatat attgagacag ctcagtaaat attttctaaa attatttacc ccctgggggc     240
agagcctgag caggaggat gataagggat gccggcctct gtatgattga aataaagaga      300
aataaccaac tctagcagct gtgagtcatt ctgaaagatg tagagaatac agggactaga     360
agcgcttata ttctcccacc aaatttgcat acatgacaaa aaacaggcaa aaggcagaga     420
gacccaaaga cgggatttat tgggggccca agtcatcacc tggaaagtca agaaagcctt     480
tgaagtattc gcggggatct tcatgatgag caggaacagg gctcatcatg gcaaggactg     540
tgaataaagt caaaaaactg aactctgttg acctgggcgc accccactgc aggtaacgga     600
aaagttcccc ctgttccac agggcaatgc caattacctc ggcccacttc gtaagggtgc      660
acagaacgaa acaaatctg tccaaaagct gggaacccaa ggaaacttt gggtttttaaa      720
tccatccatc cagcaacctc aactgtcttc ctcgatcttc cctttccact catagatgga     780
tgtaatctga gggatgaggt tgacgcaggc tgctaggcgc ttctccacca cggccctggc     840
gatctccttg gcgaccttct cgttggggca agtaacaaag gctgcagaga ccgagcccgg     900
aacgtagcca gagccggaat ccgaggccgg cgaggctgg gtcggaggc ttccagaggc      960
catggtcagc aagactcggg gtagcaacaa aaggcgggag gccacaggca gcagcgccgg    1020
catccaaaca aaagacagga gcagagaggc cactccgccg agcaggaccg cgggagcccg    1080
cccccactc atgcggccta cgctggtaca ggagagttga tctcaaaggc cacacgtcac     1140
acggagaaac aaccccagga agagcggcct cttcttacct gggtggca                1188
```

```
<210> 5959
<211> 2167
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (559)...(1470)
<223> similar to gi416520 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 5959
ggaaccgctg ggagccgggg cccagcgcgt gaggacggag cgcgctgagc gaggggagg      60
tggctgccgc ttctcccgcg tccgccattt tgttgctgtg gctattggga acaagctggg     120
caaaagcacc ccggaggcgc gacgctcctt cgagttcggt gcctcgtgtg acggcggggg     180
tcggtgaaga cccgtcgagc tgcggcgccg gcgcgttcca ggccgggagt cactggaggc     240
acccctgggg acgccgagca gcccgagaac cccggggtgg cctccgctgc ggctcgggtt     300
tgcctgcccc gaccccccgg ctctgccgtg cattcccggg cggctctctc cgtgtggcgg     360
ccccggagca ggcgggcggc gtcggaggat gctgcgggcc cggagccgag aggaaagtgc     420
tggcccagcc ctctgagcgc tcctcgaggt gtgcgagagg cccttcctcg gccccaaagc     480
cgtctgccgg gctaaggcgt gcagagcagg cgaggacagc cgccgcccct accgccgcag     540
agtccccggt ccaacaccat gtcctccgcc aggttcgact cctcggaccg ctccgcctgg     600
tatatggggc cggtgtctcg ccaggaggcg cagacccggc tccagggcca gcgccacggt     660
atgttcctcg tccgcgattc ttccacctgc cctggggact atgtgctgtc ggtgtccgag     720
aactcgcggg tctcccacta catcatcaac tcgctgccca accgccgttt taagatcggg     780
gaccaggaat ttgaccattt gccggccctg ctggagtttt acaagatcca ctacctggac     840
accaccaccc tcatcgagcc tgcgcccagg tatccaagcc caccaatggg atctgtctca     900
gcacccaacc tgcctacagc agaagataac ctggaatatg tacggactct gtatgatttt     960
cctgggaatg atgccgaaga cctgcccttt aaaaagggtg agatcctagt gataatagag    1020
aagcctgaag aacagtggtg gagtgcccgg aacaaggatg gccgggttgg gatgattcct    1080
gtcccttatg tcgaaaagct tgtgagatcc tcaccacacg gaaagcatgg aaataggaat    1140
tccaacagtt atgggatccc agaacctgct catgcatacg ctcaacctca gaccacaact    1200
cctctacctg cagtttccgg ttctcctggg gcagcaatca ccccttttgcc atccacacag    1260
aattgacctg tctttgcgaa agcaatccag aaaagagtac cctgtgcttt atgacaagac    1320
tgccttggca ttagaggttg gtgacatcgt gaaagtcaca aggatgaata taaatggcca    1380
gtgggaaggc gaagtgaacg ggcgcaaagg gcttttcccc tttacgcacg tcaaaatctt    1440
tgaccctcaa aacccagatg aaaacgagtg attgctgttg ccctgtttcc tgctgctttg    1500
ttgttctgcc tgtcctagtc tcctttgaag tgggaaagca ttttctctca taggcaagtc    1560
acactgcatt gccgaagtcc agctttctgc agactggcag tcgcacacac atttggaatg    1620
cacacagcgg ctgcctcctg atgtttgtat catagtcgta ttgtgcaaag agtagccgat    1680
tttagagttc ttttggatca taaactggaa atactgatgg aagcacacaa gtggagagaa    1740
gttgacgtgg aaagggtctt ccttctcatt gctgcccgtt tgtacatggg actgattctg    1800
tcgtgttcac cagagaaagc ttgaggccat ggcgagatac tgcatgtttg ctgttccaca    1860
aagcagtggc ttagctgcca tcttgctttt ctttggacaa caggaagtga acctggggtt    1920
ggggaggtgg ggacagagcc gggcgcagtc ggggggcacag ccctgaggcg gggctgaggg    1980
ccaggccgcc acgtccctgg accctgaaaa cgggctcgga ccccgctgc agcgtggact    2040
ccggtgtggc cgcggggcgt gcaacccgga ccctggccag ctccgtgtcc tccagacctt    2100
tactcatggc cccgcatcgc caggccgagc tgcaccttcg gtccccgccc gcggcagccg    2160
aggtagg                                                             2167
```

<210> 5960
<211> 1295
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1257)...(861)
<223> similar to gi975687 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5960
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tttttttttt ttaaggttgt tggaaataat ttttatttaa cagatataaa aaaaattctt    60
aacatttaca aattgtacaa agattggtag cttttatatt tttttaaaaa tgctatacta   120
agagaaaaaa caaaagacca caacaatatt ccaaattata ggttgagaga atgtgactat   180
gaagaaagta ttctaaccaa ctaaaaaaaa tattgaaacc acttttgatt gaagcaaaat   240
gaataatgct agatttaaaa acagtgtgaa atcacacttt ggtctgtaaa catatttagc   300
tttgcttttc attcagatgt atacataaac ttatttaaaa tgtcatttaa gtgaaccatt   360
ccaaggcata ataaaaaaag aggtagcaaa tgaaaattaa agcatttatt ttggtagttc   420
ttcaataatg atgcgagaaa ctgaattcca tccagtagaa gcatctcctt ttgggtaatc   480
tgaacaagta ccaacccaga tagcaacatc cactaatcca gcaccaattc cttcacaaag   540
tccttccaca gaagaagtgc gatgaatatt aattgttgaa ttcatttcag ggcttccttg   600
gtccaaataa attatagctt caatgggaag aggtcctgaa cattcagctc cattgaatgt   660
gaaataccaa cgctgacagc atgcatttct gcattttagc cgaagtgagc cactgaacaa   720
aactcttaga gcactatttg aacgcatctt tgtaaatgta cactccgcaa ttttcccaag   780
atctatgcca taattcaatg aactccatga acactgcttg tagttgggtg tccaggactc   840
ctcaaagctt tccctcagac attccccctt ttctcctttg aatccatccc gacctgggat   900
cccaggtgta cccggaatgc cattggcccc agggctcccg tctcgaccag gcactcctgc   960
tggcccttgt aagcacattc cattatacag gtccaccacc tccctctgcc ggagctgcgc  1020
cttttgcttc cccttgggga tctcagaggc gctcgacggc gcgggcagct gcagcagcag  1080
gagcagcagg aggccgcgga gccgctgcgg ggaggcggcg gggccctggg gtcgcatggc  1140
tcccggctgc cgggcagcgc ggagctggag gcggaggaga ccgaggagag gaacgtggtc  1200
agcgtctggc tccgccgcgc tccgaggccg ccgcaggctg catcaatgcg cctttcaccc  1260
gagcgcctct ctccctccct taattcctcc cgccc                            1295
```


<210> 5961
<211> 5694
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (207)...(2938)
<223> similar to gi577301 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 5961

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ggtctacgaa gaccaagtgg gcaagtttga ttggagacag caatatgttg ggaaggtcaa    60
gtttgcctcc ttggaatttt cccctggatc caagaagttg gttgtagcca cagagaagaa   120
tgtgattgca gcattaaatt cccgaactgg ggagatcttg tggcgccatg ttgacaaggg   180
cacggcagaa ggggctgtgg atgcccatgc tgctgcacgg acaggatgtg atcactgtgt   240
ccaatggagg ccgaatcatg cgttcctggg gagactaaca tcggggggcct gaactgggag   300
ataaccctgg gacagtggca gtttccaggg cacttgggct cggttggcct gcaggagtct   360
gtaaggtaca tccgcagtcc tgaagaagac tacacttgcc ctccatcacc tctccagtgg   420
gcacctcaag tgggtggaac atcttcccag aaagttgaca gcttccatta ccagatggtg   480
taatcttaac ggctctgggg tggtgtgggc ccctcggagt tgttcccttc agcccatgtg   540
aacattgtca agtttaatgt ggaagatgga gagattgttc agcaggttag ggtttcaact   600
ccgtggctgc agcacctgtc tggagcctgt ggtgtggtgg atgaggctgt cctggtgtgt   660
cctgacccga gctcacgttc cctccaaact ttggctctgg agacggaatg ggagttgaga   720
cagatcccac tgcagtctct cgacttagaa tttggaagtg gattccaacc ccgggtcctg   780
cctacccagc ccaacccagt ggacgcttcc cgggcccagt tcttcctgca cttgtcccca   840
agccactatg ctctgctgca gtaccattat ggaacgctga gtttgcttaa aaacttccca   900
cagactgccc tagtgagctt tgccaccact ggggagaaga cggtggctgc agtcatggcc   960
tgtcggaatg aagtgcagaa aagtagcagt tctgaagatg ggtcaatggg gagctttttcg  1020
gagaagtcta gttcaaagga ctctctggct tgcttcaatc agacctacac cattaaccta  1080
tacctcgtgg agacaggtcg gcggctgctg gacaccacga taacatttag cctggaacag  1140
agcggcactc ggcctgagcg gctgtatatc caggtgttct tgaagaagga tgactcagtg  1200
ggctaccggg ctttggtgca gacagaggat catctgctac ttttcctgca gcagttggca  1260
gggaaggtgg tgctgtggag ccgtgaggag tccctggcag aagtggtgtg cctagagatg  1320
gtggacctcc ccctgactgg ggcacaggcc gagctggaag gagaatttgg caaaaaggca  1380
gcaattcaag atggcttgct ggggatgttc ctgaaacgcc tctcgtctca gcttatcctg  1440
ctgcaagcat ggacttccca cctctggaaa atgttttatg atgctcggaa gccccggagt  1500
cagattaaga atgagatcaa cattgacacc ctggccagag atgaattcaa cctccagaag  1560
atgatggtga tggtaacagc ctcaggcaag cttttttggca ttgagagcag ctctggcacc  1620
atcctgtgga aacagtatct acccaatgtc aagccagact cctcctttaa actgatggtc  1680
cagagaacta ctgctcattt cccccatccc ccacagtgca ccctgctggt gaaggacaag  1740
gagtcgggaa tgagttctct gtatgtcttc aatcccattt ttgggaagtg gagtcaggta  1800
gctcccccag tgctgaagcg ccccatcttg cagtccttgc ttctcccagt catggatcaa  1860
gactacgcca aggtgttgct gttgatagat gatgaataca aggtcacagc tttttccagcc  1920
actcggaatg tcttgcgaca gctacatgag cttgcccctt ccatcttctt ctatttggtg  1980
gatgcagagc agggacggct gtgtggatat cggcttcgaa aggatctcac cactgagctg  2040
agttgggagc tgaccattcc cccagaagta cagcggatcg tcaaggtgaa ggggaaacgc  2100
agcagtgagc acgttcattc ccagggccgt gtgatggggg accgcagtgt gctctacaag  2160
agcctgaacc ccaacctgct ggccgtggtg acagagagca cagacgcgca ccatgagcgc  2220
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cagaagaaag ccaaaggccc tgtccatatc gtgcattcag agaactgggt ggtgtaccag  2340
tactggaaca ccaaggctcg gcgcaacgag tttaccgtac tggagctcta tgaggcact   2400
gagcaataca cgccaccgc cttcagctcc ctggaccgcc cccagctgcc ccaggtcctc   2460
cagcagtcct atatcttccc gtcctccatc agtgccatgg aggccaccat caccgaacgg  2520
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aaggctttgc tggatccccg ccgccccgag atcccaacag aacaaagcag agaggagaac  2640
ttaatcccgt attctccaga tgtacagata cacgcagagc gattcatcaa ctataaccag  2700
acagtttctc gaatgcgagg tatctacaca gctccctcgg gtctggagtc cacttgtttg  2760
gttgtggcct atggtttgga catttaccaa actcgagtct acccatccaa gcagtttgac  2820
gttctgaagg atgactatga ctacgtgtta atcagcagcg tcctctttgg cctggttttt  2880
gccaccatga tcactaagag actggcacag gtgaagctcc tgaatcgggc ctggcgataa  2940
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cagctgcagt ttggtggatt ggtggagtat gtgtgtgtgt cagtgctcag ctaagaactg  3060
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ggatccttac atgggagaga agacagaact ctctcaagct gacactctca gagattcctg  3180
atgggccttt ctctttgaag tccaaagggc gtctgcattg cttcctttct ttgcccatcc  3240
atgaatgttc tgtttttgttt tgttttttttt aataagaatt ccggctgatt tttgtgaggc  3300
ctgtttaaat tgactttact ttgccttttg tgtttctcaa ttttatctag aaatctttct   3360
```

```
gacttttttcc atctcttgct tcaaagtaag aggggaactc tccttgccga ctccaccttta    3420
taggtacatt tggtgtttttg cactgggaag aaataggatc catccttagc tgaggcttga    3480
ggactgatcc agcctctcat ggcttccctc caaagtaact tagggttgag ggatctatat    3540
gtgatgtcaa aacttacttt aaacctctag tttcgtgctg tcatttatta ggctgggcca    3600
ccaaatcttt gtttcaattt atcagaagcc aagtgcatac tagcgtcttg tttgttgccc    3660
attgcctata cttttcacct gagatgtgtg agttggggcc ttttaaaaac tactgaattg    3720
tctgagcctt gaagacattt ccagggagaa gagataatct ctcatttcac ccacaggctg    3780
gtctaatcat aacctagtta aagatgtcct tgtttaagaa ccccattatt tatttttagt    3840
ttttaatata aattaacatg tgggtcatta tatttctcct taaatgagga aattttaaat    3900
tttattgatc taacctttga agctttaaaa aaggagaaag agggtagggg tgggaaactg    3960
gcatactgtg tgtatagcac tgccgattgg ctaggccact gtgtctctgc tacaaattaa    4020
agaaatccta aaagttttcc ttggtcatag agttgggggaa tgacagaatt tttctttgtt    4080
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cgaatgtttg cataaagcaa gtgacaaatg acactgttta agtcctcttt tgtgtcttag    4200
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agtgtatttt attttagtaa ggaaaggtca gtttaatcat atatgggttg gttaggttat    4320
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gaggaaatga caaccatttt attaattgtc agtttgatat tgagtgactg aatgtctaag    4440
aatctccaga aaaaaacagg catctatcat cctgacccaa ggcatatttt aacataacct    4500
gggagaagag agttaagtac aagttaaaaa aaattctgcc ctagttttga gaaagcctgg    4560
ctggaattct gactgtctta catacatatg tgcaaggtta gcctgcaaga ttctagtttt    4620
tatttaccag tgtgccagaa tctgaaacaa gctactggga gggaaggtat ttgtcctttta    4680
gtaaaattcc ctgtatttca gctgtaatca aagttacctc aaagcaggtg ctttttttttt    4740
ttttgagacc ctggctcaaa aacaaaaaca aaaactagtt tgttttagta ttcattaatt    4800
acgtatatga gcactggtag tctagtgttt gttcttgtat acagtgtttt cttaaatgag    4860
atgatgctat ttaattctgt tacttgtttt ttcaactaat ggatctttta aagtttttta    4920
tttaaatttt ttgtgggtac atattaggta catatactta tggggtacat gagatgtttt    4980
tataaaggct cagctaatgt atcttgaata tcatgtattc ataaagatga ctgaaatagt    5040
ttctggaaca aagtctgata gaaaaaatac tcaattccta atttaagtgt tagagacttt    5100
aatgtaagct atctaatctg aactagtttc attatttgtg tgtgggtaca tgttatgtgc    5160
tccgtaaggc atctttcaat ttgaaaattt cataattgta atttcactgc ctttataaat    5220
tgctttttttt ttggaggcag ggtctctgtc acccaggctg gagagcagtg gcacagtcat    5280
agctcactgc agcctcgaac acctgggctg aagtgatcct ccctccttag cctcccaaag    5340
tgccgggatt acaggcatga gctactgcac ctggcccata aattgtcata cttttaaaga    5400
gcctattaca caaagtatca tcagaatcat cccaagactc atttcctgat tcctaattat    5460
ttaaaatttt gcttttaggc gaggcatggt ggctcgggcc tataatccca gcactttggg    5520
aggccagggc aggcggatca tttgggggtcg ggagtttagg accagcctgg ccaacatggt    5580
gaaacctgaa gccccatctc taccaaaaaa ataaaggaat ttagccgggt gtggtggtgc    5640
atgcctgtag tcccggctac ttgggaggct gaggcaggag aatcgaaccc agga          5694
```

```
<210> 5962
<211> 2014
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1452)...(2009)
<223> similar to gi1420583 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```

<400> 5962
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tttttttttt ttactgtttt atccaaattt attctcaggg aaaaagaaag tagtggctct         60
acgcaacttt ttcattcacc aaccaccttt ccatgcatca gaacctatgc tgtgattgtt        120
agctgaactt caatagtttc cacctactta agagagatgc ctcaaacaaa ttaactttat        180
tttcagacaa caggtccaag aagacttcac agctcaatca tgacgaacat gtggctgttt        240
cctcacagcc aggaaccctc ggtattagaa gaaaactcca acccccaca ccatcatcta         300
gcctcttttc tcactgtgaa gaactgatga gacagaattc ctgagaaggg aacatttagg        360
taatctggga tagaagggca tggaaggact ggacaaaact aaggcctccc catggaagga        420
agggaaaaga atattacaaa acagactaac cagaaaaacc aagaccccat caagtatcct        480
tcagggataa aacaagaggc cactcctaga tgcctcctga ttaaaaggtt gtcccatgcc        540
ctacagaggc ggaggataaa tcctaagaaa cagaaatgta taaccagccc caatgcttcc        600
catacttctg cattaggtca gtgtgaacat ggctttgctc ccaatggtca gacctgacat        660
gggtccttct gaagatggtg ggtcaggtat atcccagcca ccctcaccag agaatacatc        720
tatgacaaac ccaaattcct aatcctgaag tactttgagc cactctacat tgtggccact        780
caataataga ataaatttgt gaaaaagctg catgttttaa tttaggaaat gagtagaagt        840
tcacaagcaa cccagaatag gtgccagcag tttgctccag tgggccacac cacagcagca        900
gctcaggctc tgcagaatca ctgtgtccag tgcttcctga gatgttcttt cagctgagga        960
atggaaggca gcagctgctg gcactcatga caacgaaggg gcagcttcaa gagctcaggc       1020
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tctaggaagt attctgtatt gaaagaattc caatgttttt tgttttttaag gcaaggagaa      1140
tcaaaatcct ggctgatcac atgaagatgt acatggctca tactcggaat ggcgtggtag       1200
cccaatcgga agcggagttt gctggaccca gcaaaatcta caatcacctt ttccccacac       1260
gtgtgcatat gcttaaggag ttcaaggtgt tcccctggcc acagccttca gactggaaat       1320
ggaggtccac ggtaagacca gccaatggta acgggccttt gggtatttat cctttatcac       1380
caccacctgc tcatctttgt aaacctgcat tttggggtcc tgcatagaaa tcttcaagcc       1440
ttgactccag tggcccaggg attcctttt gataggtgca tcttttccct tctttagggg       1500
cacagagcat tggccagagt tgctcccagg ttccagccct gtcccagcct cagcttcctg       1560
agcagcatcc ctttctatag aatcactgtt gcctgatctc tttctcttcc tgtgtgtttc       1620
caggccaggg ttctttgcct cttcctcaaa ctctacaata tatggataaa gttcattcac       1680
catgtggaga acctggccag gctgcagctt cacctcttgg tccttcccaa ttacgactga       1740
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tgctttcaac tgtacttgct gtcgagaaca tttcttatca gtgatcttgg tctctgggcc       1860
acgcccaatc acaactgctt ccaaatgtgg aagtctgatt cgctggtgcc ggctgtcctg       1920
tctcaccaac cagcacaccc gcatcatcac tctccagaag tcggagacgg acaaattcac       1980
cctcgtgcca agcatggcgg aatgcatcta acag                                   2014
```

<210> 5963
<211> 542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (463)...(403)
<223> similar to gi4678534 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 5963
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gacgtccggg tttacccacg cgtccgccca cgcgtccgaa gtgctgaaga aggtactgga         60
```

```
atgtaacaag gaagaggtac ccaacaagga tgaactggtt ggaaacttgt atagctgcat    120
agggaatgcc cagattgagc tggggcagat ggaggcagcc ctgcagagcc acagaaagga    180
cctggagatc gccaaggaat atgaccttcc tgatgcaaaa tcgagaccc ttgacaacat    240
tggcagagtt tttgccagag ttgggaaatt ccagcaagcc attgacacgt gggaagaaaa    300
gatccctctg gcaaaaacca ccctggagaa gacctggctg ttccacgaga tcggccgctg    360
ctacttggag ctggaccagg cctggcaggc ccagaattat ggcgagaagt cccagcagtg    420
tgccgaggag gaaggggaca ttgagtggca actgaatgcc agtgttctgg tggcccaggc    480
acaagtgaag ctgagagact cgagtcagc cgtgaacaat tttgagaagg ccctggagag    540
ag                                                                  542
```

<210> 5964
<211> 1224
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1206)...(51)
<223> similar to gi3002527 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5964
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gctcacacct gtaatctcag cacttcaggt ggccgagacg ggacaattgc ttgaggccag     60
gagtttgaga ccagcctggc caacatggca aaaccccatc cctacaagaa atataaaaat    120
tagctgggct tggtagtaca cgcctgtaat cccagctact acttgggagg ctgaggcatg    180
tgaattgctt gaacccaaga gacataggtt gcagtgagcc gagaccacgc cactgcactc    240
cagcctgggc aatggagtga gactctgtct caggaaaaag aaaaataaat gaagcataag    300
cattgaaaat gaggggtcag agtgtctttta cttacattat actaatgtga aattccctat    360
gtgagaggtg tagtaattga gttggggtgg ctacgtggaa tagtttataa agggagtttg    420
catgaatttt ggcaataagc agaccagcat aaataaatgg tgcacatttc actttctttt    480
ccactctttc cagaggcgca ggaattggtg ggcttggcat aactgttgag ggaccatcag    540
agtcgaagat aaattgcaga gacaacaagg atggcagctg cagtgctgag tacattcctt    600
tcgcgccggg ggattacgat gttaatatca catatggagg agcccacatc cctggtgagc    660
tattcctcag agaggacccc agagaataat tgattttgca ggaaaatggg tttgatttttg    720
cttatctctc tgagtgggga aaacaatctg atatttgtaa tagctgcaaa aggagagttt    780
ttcttagggc tacatctcca agattatctc aactccagt agaaccggta acatggcaaa    840
aagcatcggc ttagaatttt gactggaaac agttgtgcgt gtgttggagg acctagttct    900
tgattcaggg gaaagctggt tctttacaaa gttgaaaatc acagtggctc acacctgtaa    960
tccccaaact ttgggaggcc aaggcatgca gattgcttca ggtcaggagt ttgagaccag   1020
cccaggcaac atggggaatc cccatcttta caagaaatac aaaacttagc tgagtgtgat   1080
ggtgcgtgcc tgtaatccta gctatgtggg gtgggggctg tgatgggacg atgtctgaga   1140
tgggagcctg ggaggttgag tgagctgaga ttgcgccact gcgctccagc ttgggtgaca   1200
gaggaagacc ctgtctcaaa aaaa                                          1224
```

<210> 5965
<211> 8182
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (225)...(7912)
<223> similar to gi2181867 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 5965
```
tgacttatcc gctcgaccca cgcgttcgag acagtggtac cttttttcct tttaggtgat      60
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tggtacttca tcttctatat gtggactata atttcttccc ttaggataac tacataaaga     180
gacaaaaaaa agaaaaaaga gcaaagatct gtgctgtgtc aagtatgaca gccatcactc     240
atggctctcc agtaggaggg aacgacagcc agggccaggt tcttgatggc cagtctcagc     300
atctcttcca acagaaccag acttcatcac ctgattcttc caatgagaat tccgtagcaa     360
ctcctcctcc agaggaacaa gggcaaggtg atgccccacc acagcatgaa gatgaagagc     420
ctgcatttcc acatactgag ctggcaaacc tggatgacat gatcaacagg cctcgatggg     480
tggttcctgt tttgccaaaa ggggaattag aagtgctttt agaagctgct attgatctta     540
gtgtaaaagg ccttgatgtt aaaagtgaag catgccaacg ttttttcga gatggactaa     600
caatatcttt cactaaaatt cttatggatg aggctgtgag tggctggaag tttgaaattc     660
atagatgtat tattaacaat actcatcgcc tagtggagct ttgtgtggcc aagttgtccc     720
aagattggtt tccacttcta gaacttctcg ccatggcctt aaatcctcac tgcaagtttc     780
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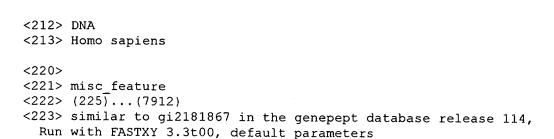
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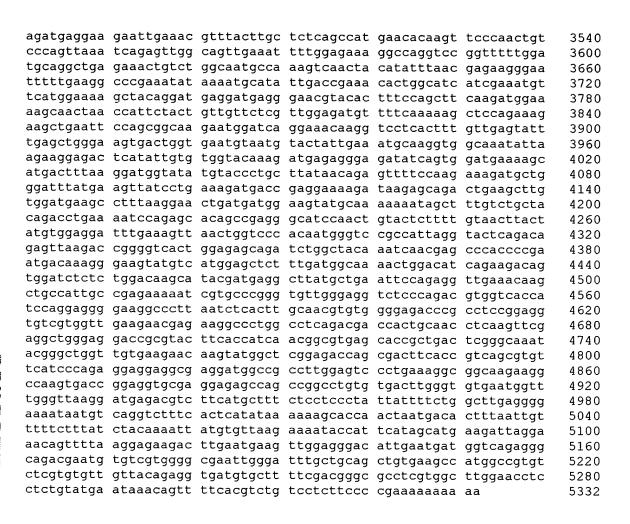
```
<210> 5967
<211> 1679
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (85)...(1199)
<223> similar to gi4972090 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 5967
gccgcttttc ccgcctccgc cggggccgag ccgctgttcg gctgacagtt gaggatggcc       60
ggagccgagg gcgccgctgg gcggcagtcg gagctggagc ccgtggtatc gttggtcgac      120
gtccttgagg aggacgagga gctggagaat gaggcgtgcg ctgtcctggg cggcagcgac      180
tccgagaagt gctcctactc tcagggctca gtaaagagac aagcactata tgcctgtagt      240
acctgcaccc cagagggaga agaaccagca ggaatttgtt tagcttgcag ttatgaatgt      300
catggaagtc acaaactatt tgagctatac acaaaaagaa attttcgttg tgattgtgga      360
```

```
aacagcaagt ttaaaaattt ggaatgcaaa ttacttcctg acaaagcaaa ggtaaattct    420
ggcaataagt acaatgacaa ctttttttgga ttgtactgca tttgcaagag accttatcct    480
gatcctgaag acgagattcc agatgagatg atccagtgcg tagtctgtga agactggttc    540
catggaaggc atcttggtgc cattccccct gagagtgggg attttcagga gatggtatgc    600
caggcctgca tgaaacgttg ttcttttttg tgggcttatg ctgcacaatt ggcagtaacc    660
aaaatatcca ctgaggatga tggattggtg cggaacattg atggaatagg tgatcaggaa    720
gttatcaaac ctgaaaatgg agagcatcaa gatagtaccc tcaaagagga tgttccagaa    780
cagggaaagg atgatgtccg ggaggttaaa gtagagcaga acagtgaacc atgtgccggc    840
tctagttctg aatctgatct ccagacagtg tttaagaatg aaagcctcaa cgcagaatca    900
aaatctggct gcaaacttca ggagcttaaa gctaagcagc ttataaagaa agacactgcc    960
acctattggc ccctgaactg gcgtagcaag ttgtgtacct gccaagactg tatgaaaatg   1020
tatggagatc tagatgtctt attcctgaca gatgaatacg acacagttct ggcttatgaa   1080
aacaaaggga agattgccca ggccactgac aggagcgatc ccctaatgga tacccttagc   1140
agcatgaata gagtccagca agtggaactc atttgtgaat acaatgattt gaagactgaa   1200
cttaaagact atctcaagag atttgctgat gaaggcacgg ttgttaagag agaggacatt   1260
cagcagttct ttgaagagtt tcagtcaaaa aagagaagaa gagtggatgg gatgcagtat   1320
tactgcagct agagtggagt atgaagcttt ctcattcaag ccaatgaaaa tgcgcttccc   1380
attcttggaa taaaagaggt gtggttcaca tttggccccc tttccgtcct cctctgtttg   1440
gagaggcctc gcgctccctt cattctcttt agctgcagta gccaccgtgt ggatgctgac   1500
ttcacagcca gcgtcctctg tgactcagct gatgcagctc attccacaga cttcgccagt   1560
gtactcctac tccagtgcac ccagggttat ttgcatagtt tttaagtttg attttgtttt   1620
gagaaagcaa atttggtgtc tttgtttaat gatctgttat ttcactccca gatgtgtgt   1679



        <210> 5968
        <211> 1442
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (468)...(1241)
        <223> similar to gi554204 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 5968
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tggaggttga catccaggac tcccatgtct cgatatcacc cagccggaat gttggctaca    120
gcactttaat cgggcgagag aaaaccgaac ccttacagaa gatgccagag ggcagagtac    180
ccccagagag aaacctcttc agtcaggata tctctgtgaa aatggcttcc gagctcctct    240
ttcaactgtc agaaaaagtg agcaaagagc acaatcatac aaaagaaaac accatccgga    300
ccacgaccag cccttctttt tcagaagaca catttagaca atcaccattc acctccaatt    360
caaaagaact gctgcccagt gactccgtgc tgcacggaag aatatcagct ccagaaacag    420
aaaagatagt cctagaggca ggaaatggat taccatcctg gaaattcaat gaccagcttt    480
ttccctgtga cgtgtgtggg aaagtgtttg gccgacagca gacattgtcc cgacacctct    540
cgctgcacac agaggaaaga aaatacaaat gccacttgtg cccctatgct gctaagtgcc    600
gtgcaaatct gaaccagcac ttgaccgtcc attccgtgaa gctggtgagt acagacaccg    660
aggacattgt cagcgccgtc acctctgaag gcagtgatgg gaagaaacat ccttattatt    720
acagttgtca cgtgtgtgga tttgagaccg agctcaatgt ccagtttgtc agccacatgt    780
cactccacgt ggacaaggag cagtggatgt tttcgatctg ctgcactgcc tgcgacttcg    840
tcaccatgga ggaagcagag ataaagactc acattggcac caagcacaca ggggaagaca    900
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